

# **Opinio database description**

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# Introduction

This documentation provides information about Opinio 6.0 database structure and description of tables, indexes and foreign keys.

Opinio database is a relational database that stores information about survey, respondent, reports and all other Opinio data. The database is total contains 103 tables.

We tried to keep Opinio databases as simple as possible to give the Opinio user a wide selection of supported databases. Opinio database doesn't rely on stored procedures, triggers, functions and other database programming features because a lot of databases don't support them.

Several sql scripts to create database are included in the Opinio distribution, one for each supported database. By supported database we mean a database that has been tested by Opinio developers and added to automatic upgrade inbuilt in Opinio.

## History of database support

Opinio version	Database supported
Opinio 4.0	<ul style="list-style-type: none"><li>• Hypersonic SQL</li><li>• MySQL</li><li>• Microsoft SQL Server</li><li>• Oracle</li></ul>
Opinio 4.1 - 5.2.11	<ul style="list-style-type: none"><li>• Hypersonic SQL</li><li>• MySQL</li><li>• Microsoft SQL Server</li><li>• Oracle</li><li>• PostgreSQL</li><li>• IBM DB2</li></ul>
Opinio 6.0	<ul style="list-style-type: none"><li>• Derby</li><li>• MySQL</li><li>• Microsoft SQL Server</li><li>• Oracle</li><li>• PostgreSQL</li><li>• IBM DB2</li></ul>

In this document we use MySQL data types to describe table columns. Column types may vary from database to database.

CURRENT\_DATE

# Tables

## OPS\_SystemInfo

General information about the system.

### Columns

Column	Data type	Allow NULLs	Key	Notes
SystemInfoId	BIGINT	NOT NULL	PK	Unique id
Language	VARCHAR(100)	NULL		Default language
MainMailserver	VARCHAR(100)	NULL		Main mail server to use when sending email
SecondMailserver	VARCHAR(100)	NULL		The SMTP email server to use if the main server is down
Cache_size	INTEGER	NULL		Survey cache size
LicenseCode	VARCHAR(100)	NULL		The license code controls whether Opinio runs in Demo or full mode.

### Foreign keys

Foreign key	Child	Parent
OPS_FK78	OPS_SystemAttribute.SystemInfoId	SystemInfoId
OPS_FK91	OPS_Host.SystemInfoId	SystemInfoId

## OPS\_SystemAttribute

One record represents one system attribute.

### Columns

Column	Data type	Allow NULLs	Key	Notes
SystemAttributeId	BIGINT	NOT NULL	PK	Unique id
AttributeName	VARCHAR(30)	NOT NULL		Short name of the system attribute
StringValue	VARCHAR(255)	NULL		String value of the attribute
LongValue	BIGINT	NULL		Long value of the attribute
BigTextValue	TEXT	NULL		Big text value of the attribute
FloatValue	DOUBLE	NULL		Double value of the attribute
SystemInfoId	BIGINT	NOT NULL	FK	References OPS_SystemInfo table

### Foreign keys

Foreign key	Child	Parent
OPS_FK78	SystemInfoId	OPS_SystemInfo.SystemInfoId

## OPS\_User

Defines a user.

### Columns

Column	Data type	Allow NULLs	Key	Notes
UserId	BIGINT	Not null	PK	Unique id
Login	VARCHAR(20)	Not null		Login name
UserName	VARCHAR(100)	Null		User's personal name
Password	VARCHAR(250)	Not null		Password
EncryptionKey	VARCHAR(100)	Null		Encryption key

### Indices

Index	Columns
User_Login	Login

### Foreign keys

Foreign key	Child	Parent
OPS_FK37	OPS_ResourcePermission.UserId	UserId
OPS_FK74	OPS_UserAttribute.UserId	UserId
OPS_FK75	OPS_UserGroupMember.UserId	UserId
OPS_FK103	OPS_Panel.UserId	UserId
OPS_FK98	OPS_RecentItem.UserId	UserId

## OPS\_UserAttribute

One record represents one user attribute.

### Columns

Column	Data type	Allow NULLs	Key	Notes
UserAttributeId	BIGINT	Not null	PK	Unique id
AttributeName	VARCHAR(30)	Not null		Short name of the user attribute
StringValue	VARCHAR(255)	Null		String value of the attribute
LongValue	BIGINT	Null		Long value of the attribute
BigTextValue	TEXT	Null		Big text value of the attribute

Column	Data type	Allow NULLs	Key	Notes
FloatValue	DOUBLE	Null		Double value of the attribute
UserId	BIGINT	Not null	FK	References OPS_User table

## Indices

Index	Columns
UserAttribute_Us1	UserId

## Foreign keys

Foreign key	Child	Parent
OPS_FK74	UserId	OPS_User.UserId

## OPS\_UserGroup

Defines a group of Opinio users.

### Columns

Column	Data type	Allow NULLs	Key	Notes
UserGroupId	BIGINT	Not null	PK	Unique id
UserGroupName	VARCHAR(100)	Null		Name of the user group
Description	VARCHAR(100)	Null		Description of the user group

## Foreign keys

Foreign key	Child	Parent
OPS_FK76	OPS_UserGroupMember.UserId	UserGroupId

## OPS\_UserGroupMember

Each record maps one user to one user group. One user can be a member of unlimited number of user groups.

### Columns

Column	Data type	Allow NULLs	Key	Notes
UserGroupMemberId	BIGINT	Not null	PK	Unique id
UserId	BIGINT	Not null	FK	References OPS_User table
UserGroupId	BIGINT	Not null	FK	References OPS_UserGroup table



## Indices

Index	Columns
UserGroupMember_1	UserId
UserGroupMember_2	UserGroupId
UserGroupMember_3	UserId, UserGroupId

## Foreign keys

Foreign key	Child	Parent
OPS_FK75	UserId	OPS_User.UserId
OPS_FK76	UserGroupId	OPS_UserGroup.UserGroupId

## OPS\_ResourcePermission

Represents a set of permissions for a resource. Resource are reusable items, such as drop down lists, headers/footers and survey objects, such as survey group(folder), survey, report and so on. One record exists for one resource.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ResourcePermissionId	BIGINT	Not null	PK	Unique id
ResourceType	INTEGER	Null		Type of the resource: <ul style="list-style-type: none"><li>• 0 = all resources</li><li>• 1 = user group</li><li>• 2 = survey group (folder)</li><li>• 3 = survey</li><li>• 4 = custom report</li><li>• 5 = dropdown list</li><li>• 6 = header</li><li>• 7 = footer</li><li>• 8 = plugin</li><li>• 9 = invitation list(reusable list of invitees)</li></ul> Type of the resource:
ResourceId	BIGINT	Null		Id of the resource. Example: if resource type is survey, then ResourceId is survey id.
PermissionList	VARCHAR(255)	Null		Permissions to the resource. Stored as a string with access types separated by comma and enclosed in braces. Example: {1, 2, 7} <ul style="list-style-type: none"><li>• 0 - admin access</li><li>• 1 = read access</li><li>• 2 = modify access</li><li>• 4 = create access</li><li>• 5 = access to survey invitations (if</li></ul>

Column	Data type	Allow NULLs	Key	Notes
				ResourceType is survey) <ul style="list-style-type: none"><li>• 6 = access to survey reports (if ResourceType is survey)</li><li>• 7 = permission to delete responses (if ResourceType is survey)</li><li>• 8 = permission to add a new survey to the group (if ResourceType is survey group)</li><li>• 9 = permission to add a new survey group to the group (if ResourceType is survey group)</li><li>• 10 = permission to administrate users (if ResourceType is user group)</li></ul>
UserId	BIGINT	Null	FK	References OPS_User table

## Indices

Index	Columns
ResourcePermissi1	UserId
ResourcePermissi2	ResourceType, ResourceId, UserId

## Foreign keys

Foreign key	Child	Parent
OPS_FK37	UserId	OPS_User.UserId

## OPS\_SurveyGroup

Defines survey group.

## Columns

Column	Data type	Allow NULLs	Key	Notes
SurveyGroupId	BIGINT	Not null	PK	Unique id
GroupTitle	VARCHAR(100)	Null		Survey group name
ParentGroupId	BIGINT	Null		Id of the parent survey group
Description	VARCHAR(255)	Null		Survey group description
SortBy	INTEGER	Null		Sort by value <ul style="list-style-type: none"><li>• 0 - name</li><li>• 1 - date</li><li>• 2 - date reverse</li></ul> Sort by value
CreatedDate	BIGINT	Null		Created date
UpdatedDate	BIGINT	Null		Last updated date

## Indices

Index	Columns
SurveyGroup_Pare1	ParentGroupId

## Foreign keys

Foreign key	Child	Parent
OPS_FK71	OPS_Survey.SurveyGroupId	SurveyGroupId

## OPS\_Survey

Defines a survey. This table contains necessary information about a survey. All general information is defined in OPS\_SurveyAttribute table.

## Columns

Column	Data type	Allow NULLs	Key	Notes
SurveyId	BIGINT	Not null	PK	Unique id
SurveyName	VARCHAR(100)	Not null		Name of the survey (used in the administration module)
CreatedDate	BIGINT	Null		Date created
CreatedBy	BIGINT	Null		User id who created the survey.
SurveyGroupId	BIGINT	Null	FK	References OPS_SurveyGroup table
DeleteStatus	INTEGER	Null		Deleted status (not is use)
ContentType	INTEGER	Null		Survey content type: <ul style="list-style-type: none"><li>• 0 - survey is a survey</li><li>• 1 - survey is a question library</li></ul> Survey content type:
ParentId	BIGINT	Null		References OPS_Survey.SurveyId. Is NULL if not a child survey.
LastEditedBy	BIGINT	Null		Id of the last user who has updated the survey

## Indices

Index	Columns
Survey_SurveyGro1	SurveyGroupId

## Foreign keys

Foreign key	Child	Parent
OPS_FK16	OPS_Invitation.SurveyId	SurveyId
OPS_FK19	OPS_Question.SurveyId	SurveyId
OPS_FK34	OPS_Report.SurveyId	SurveyId
OPS_FK38	OPS_Respondent.SurveyId	SurveyId
OPS_FK71	SurveyGroupId	OPS_SurveyGroup.SurveyGroupId
OPS_FK72	OPS_SurveyAttribute.SurveyId	SurveyId
OPS_FK73	OPS_SurveyPage.surveyId	SurveyId
OPS_FK87	OPS_SurveyPageAttribute.SurveyId	SurveyId
OPS_FK105	OPS_PanelSignUpSurvey.SurveyId	SurveyId
OPS_FK102	OPS_SurveyPiping.SurveyId	SurveyId
OPS_FK94	OPS_Survey.ParentId	SurveyId
OPS_FK95	OPS_SurveyComment.SurveyId	SurveyId

## OPS\_SurveyAttribute

One record represents one survey attribute.

### Columns

Column	Data type	Allow NULLs	Key	Notes
SurveyAttributeId	BIGINT	Not null	PK	Unique id
AttributeName	VARCHAR(30)	Not null		Short name of the attribute
StringValue	VARCHAR(255)	Null		String value of the attribute
LongValue	BIGINT	Null		Long value of the attribute
BigTextValue	TEXT	Null		Big text value of the attribute
FloatValue	DOUBLE	Null		Double value of the attribute
SurveyId	BIGINT	Not null	FK	References OPS_Survey table

### Indices

Index	Columns
SurveyAttribute_1	SurveyId

### Foreign keys

Foreign key	Child	Parent
OPS_FK72	SurveyId	OPS_Survey.SurveyId

## OPS\_SurveyPage

Represents a page with questions (survey section).

## Columns

Column	Data type	Allow NULLs	Key	Notes
SurveyPageId	BIGINT	Not null	PK	Unique id
FromQuestion	INTEGER	Null		Number of the first question on the page
ToQuestion	INTEGER	Null		Number of the last question on the page
PageNo	INTEGER	Null		Sequential position of the page. Starts at 0.
SurveyId	BIGINT	Not null	FK	References OPS_Survey table

## Indices

Index	Columns
SurveyPage_Surve1	SurveyId

## Foreign keys

Foreign key	Child	Parent
OPS_FK73	SurveyId	OPS_Survey.SurveyId
OPS_FK86	OPS_SurveyPageAttribute.SurveyPageId	SurveyPageId

## OPS\_SurveyPageAttribute

One record represents one survey page (section) attribute.

## Columns

Column	Data type	Allow NULLs	Key	Notes
SurveyPageAttributeId	BIGINT	Not null	PK	Unique id
AttributeName	VARCHAR(30)	Not null		Short name of the attribute
StringValue	VARCHAR(255)	Null		String value of the attribute
LongValue	BIGINT	Null		Long value of the attribute
BigTextValue	TEXT	Null		Big text value of the attribute
FloatValue	DOUBLE	Null		Double value of the attribute
SurveyPageId	BIGINT	Not null	FK	References OPS_SurveyPage table
SurveyId	BIGINT	Not null	FK	References OPS_Survey table

## Foreign keys

Foreign key	Child	Parent
OPS_FK86	SurveyPageId	OPS_SurveyPage.SurveyPageId
OPS_FK87	SurveyId	OPS_Survey.SurveyId

## OPS\_SurveyComment

Stores survey comments

### Columns

Column	Data type	Allow NULLs	Key	Notes
SurveyCommentId	BIGINT	Not null	PK	Unique id
SurveyId	BIGINT	Not null		References OPS_SurveyId.SurveyId
CommentText	TEXT	Null		The survey comment
CommentBy	VARCHAR(50)	Null		Who added the comment
EntryDate	BIGINT	Null		When the comment was added

Stores survey comments

### Foreign keys

Foreign key	Child	Parent
OPS_FK95	OPS_Survey.SurveyId	SurveyId

Stores survey comments

## OPS\_SurveyPiping

Stores survey piping elements info

### Columns

Column	Data type	Allow NULLs	Key	Notes
SurveyPipingId	BIGINT	Not null	PK	Unique id
PipingName	VARCHAR(255)	Not Null		The name of piping element
PipingType	INTEGER	Null		The piping type <ul style="list-style-type: none"><li>1 - piping of type text (the only type currently supported)</li></ul>
PipingSourceType	INTEGER	Null		The piping source type <ul style="list-style-type: none"><li>1 - question response</li><li>2 - survey URL parameter</li><li>3 - invitee data</li><li>4 - fixed value</li></ul>
				The piping source type

Column	Data type	Allow NULLs	Key	Notes
QuestionId	BIGINT	Null		Question id (set if piping source type is Question response)
QuestionSourceType	INTEGER	Null		<p>Since one question can have several inputs fields, this columns specifies which of the input is used for piping.</p> <ul style="list-style-type: none"> <li>1 - in-text element</li> <li>2 - response to question type (rating/numeric/multiple/matrix cell/dropdown)</li> <li>3 - multiple Other option</li> <li>4 - open-ended response</li> </ul> <p>is used for piping.</p>
IntextName	VARCHAR(255)	Null		The name of in-text element used for piping.
MatrixCellCol	INTEGER	Null		Column of the matrix cell used for piping
MatrixCellRow	INTEGER	Null		Row of the matrix cell used for piping
URLParamName	VARCHAR(255)	Null		The name of url parameter used for piping (parameter name without "opdata_").
InviteeDataType	INTEGER	Null		<p>Type of the invitee data used for piping:</p> <ul style="list-style-type: none"> <li>1 - invitee name</li> <li>2 - invitee email</li> <li>3 - invitee attribute</li> <li>4 - invitee id</li> </ul> <p>Type of the invitee data used for piping:</p>
InviteeDataName	VARCHAR(255)	Null		The name of invitee attribute used for piping.
FixedValue	VARCHAR(255)	Null		Piping value for fixed value piping type
MultipleValuesDelimiter	VARCHAR(255)	Null		Delimiter for multiple piping values
SurveyId	BIGINT	Not null		References OPS_SurveyId.SurveyId

## Indices

Index	Columns
SurveyPiping1	PipingName, SurveyId

## Foreign keys

Foreign key	Child	Parent
OPS_FK102	OPS_Survey.SurveyId	SurveyId

## OPS\_Quota

Defines a response quota for survey.

## Columns

Column	Data type	Allow NULLs	Key	Notes
QuotaId	BIGINT	Not null	PK	Unique id
QuotaIndex	INTEGER	Null		Index in the quota list
QuotaLimit	INTEGER	Null		Quota limit
GroupIndex	INTEGER	Null		The group index
GroupName	VARCHAR(255)	Null		The name of the group
QuestionNo	INTEGER	Null		Question number in the survey, 0 if leaf
QuotaType	INTEGER	Null		The quota type
QuotaTargetIndex 1	INTEGER	Null		The quota target index
QuotaTargetIndex 2	INTEGER	Null		The quota target index 2
CreatedDate	BIGINT	Not null		The creation date for the quota
UpdatedDate	BIGINT	Null		The updated date for the quota
QuotaParentId	BIGINT	Null		The parent id for the quota
QuotaAncestorId	BIGINT	Null		The ancestor id for the quota
SurveyId	BIGINT	Not null	FK	The survey id for the quota

## Foreign keys

Foreign key	Child	Parent
OPS_FKXX	OPS_Survey.SurveyId	SurveyId

## OPS\_Question

One question in a survey.

## Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionId	BIGINT	Not null	PK	Unique id
QuestionNo	INTEGER	Null		The question number
DisplayNo	VARCHAR(20)	Null		User defined number to display instead of default question number
QuestionText	TEXT	Null		Question text
QuestionType	INTEGER	Null		Type of the question, defines what kind of the question it is. <ul style="list-style-type: none"><li>• 0 - no type</li><li>• 1 - rating</li><li>• 2 - numeric</li><li>• 3 - multiple</li></ul>



Column	Data type	Allow NULLs	Key	Notes
				<ul style="list-style-type: none"> <li>4 - matrix</li> <li>5 - dropdown</li> </ul>
TextBefore	TEXT	Null		Text before the question
TextAfter	TEXT	Null		Text after the question
QuestionLayout	VARCHAR(10)	Null		Layout of the question. Values: <ul style="list-style-type: none"> <li>vertical</li> <li>horizontal</li> </ul> Layout of the question. Values:
RelationKey	VARCHAR(10)	Null		Relation key
SurveyId	BIGINT	Not null	FK	References OPS_Survey table

## Indices

Index	Columns
Question1	SurveyId, QuestionNo, QuestionId

## Foreign keys

Foreign key	Child	Parent
OPS_FK19	SurveyId	OPS_Survey.SurveyId
OPS_FK20	OPS_QuestionAttribute.QuestionId	QuestionId
OPS_FK22	OPS_QuestionDropdown.QuestionId	QuestionId
OPS_FK23	OPS_QuestionFreeText.QuestionId	QuestionId
OPS_FK24	OPS_QuestionMatrix.QuestionId	QuestionId
OPS_FK28	OPS_QuestionMultiple.QuestionId	QuestionId
OPS_FK30	OPS_QuestionNumeric.QuestionId	QuestionId
OPS_FK31	OPS_QuestionRating.QuestionId	QuestionId
OPS_FK33	OPS_QuestionTagField.QuestionId	QuestionId
OPS_FK39	OPS_ResponseDropdown.QuestionId	QuestionId
OPS_FK41	OPS_ResponseEssay.QuestionId	QuestionId
OPS_FK43	OPS_ResponseEssayNum.QuestionId	QuestionId
OPS_FK46	OPS_ResponseEssayText.QuestionId	QuestionId
OPS_FK49	OPS_ResponseFreeText.QuestionId	QuestionId
OPS_FK51	OPS_ResponseMatrix.QuestionId	QuestionId
OPS_FK53	OPS_ResponseMatrixNum.QuestionId	QuestionId
OPS_FK56	OPS_ResponseMatrixText.QuestionId	QuestionId
OPS_FK59	OPS_ResponseMultipleOption.QuestionId	QuestionId

Foreign key	Child	Parent
OPS_FK61	OPS_ResponseMultipleOptionNum.QuestionId	QuestionId
OPS_FK64	OPS_ResponseMultipleOptionText.QuestionId	QuestionId
OPS_FK67	OPS_ResponseNumeric.QuestionId	QuestionId
OPS_FK69	OPS_ResponseRating.QuestionId	QuestionId
OPS_FK77	OPS_Validator.QuestionId	QuestionId
OPS_FK79	OPS_QuestionCondition.QuestionId	QuestionId

## OPS\_QuestionAttribute

One record for one question attribute.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionAttributeId	BIGINT	Not null	PK	Unique id
AttributeName	VARCHAR(30)	Not null		Short attribute name
StringValue	VARCHAR(255)	Null		String value of the attribute
LongValue	BIGINT	Null		Long value of the attribute
BigTextValue	TEXT	Null		Big text value of the attribute
FloatValue	DOUBLE	Null		Double value of the attribute
QuestionId	BIGINT	Not null	FK	References OPS_Question table

### Indices

Index	Columns
QuestionAttribut1	QuestionId

### Foreign keys

Foreign key	Child	Parent
OPS_FK20	QuestionId	OPS_Question.QuestionId

## OPS\_QuestionTagField

One record defines one essay field.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionTagFieldId	BIGINT	Not null	PK	Unique id
TagFieldType	INTEGER	Not null		Essay field type <ul style="list-style-type: none"> <li>• 1 - dropdown list</li> <li>• 2 - checkbox</li> <li>• 3 - text</li> <li>• 4 - numeric INTEGER</li> <li>• 5 - numeric decimal</li> </ul> Essay field type
TagId	VARCHAR(255)	Not null		Identification of the essay field inside one question.
FieldSize	INTEGER	Null		Size of the essay field. Applicable for text and numeric fields.
DropdownId	BIGINT	Null	FK	References OPS_Dropdown. Applicable for dropdown field type.
QuestionId	BIGINT	Not null	FK	References OPS_Question table

## Indices

Index	Columns
QuestionTagField1	QuestionId
QuestionTagField2	TagId, QuestionId

## Foreign keys

Foreign key	Child	Parent
OPS_FK32	DropdownId	OPS_Dropdown.DropdownId
OPS_FK33	QuestionId	OPS_Question.QuestionId

## OPS\_QuestionRating

Defines a rating/scale question.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionRatingId	BIGINT	Not null	PK	Unique id
QuestionId	BIGINT	Not null	FK	References OPS_Question table.
MinText	VARCHAR(100)	Null		Label for minimum rating
MaxText	VARCHAR(100)	Null		Label for maximum rating
RatingLevel	INTEGER	Null		Number of levels in a rating question
ShowNA	VARCHAR(5)	Null		True if N/A option will is on. Values:

Column	Data type	Allow NULLs	Key	Notes
				<ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul>
NALabel	VARCHAR(50)	Null		Label for N/A option
RatingStartLevel	INTEGER	Null		Start value for the rating
RatingLabels	TEXT	Null		Label for the rating value

## Indices

Index	Columns
QuestionRating_Q1	QuestionId

## Foreign keys

Foreign key	Child	Parent
OPS_FK11	OPS_BranchRating.QuestionRatingId	QuestionRatingId
OPS_FK13	OPS_BranchRatingOption.QuestionRatingId	QuestionRatingId
OPS_FK31	QuestionId	OPS_Question.QuestionId

## OPS\_QuestionMultiple

Defines the type of a multiple-choice question.

## Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionMultipleId	BIGINT	Not null	PK	Unique id
MultipleOn	VARCHAR(5)	Not null		Flag determining the multiple choice type: <ul style="list-style-type: none"> <li>true - single selection</li> <li>false - multiple selection</li> </ul> Flag determining the multiple choice type:
ColumnCount	INTEGER	Not null		Number of display columns (to ease display if number of choices are numerous)
QuestionId	BIGINT	Not null	FK	References OPS_Question table

## Indices

Index	Columns
QuestionMultiple2	QuestionId

## Foreign keys

Foreign key	Child	Parent
OPS_FK7	OPS_BranchMultiple.QuestionMultipleId	QuestionMultipleId
OPS_FK9	OPS_BranchMultipleOption.QuestionMultipleId	QuestionMultipleId
OPS_FK28	QuestionId	OPS_Question.QuestionId
OPS_FK29	OPS_QuestionMultipleOption.QuestionMultipleId	QuestionMultipleId

## OPS\_QuestionMultipleOption

One option in a multiple-choice question.

### Columns

Column	Data type	Allow NULLs	Key	Notes
OptionText	VARCHAR(255)	Null		The text of the multiple choice option
OptionIndex	INTEGER	Not null		Position of the option. 0 is the first multiple choice option, 1 is the second, etc.
Image	VARCHAR(255)	Null		Defines an image in a multiple choice option
Layout	INTEGER	Null		Layout for the option <ul style="list-style-type: none"><li>0 - default layout (text to the right of the option)</li><li>1 - option to the left of the text</li><li>2 - option to the right of the text</li><li>3 - option over the text</li><li>4 - option under the text</li></ul> Layout for the option
ImageLayout	INTEGER	Null		Image layout <ul style="list-style-type: none"><li>0 - default layout (text to the right of the option)</li><li>1 - image to the left of the text</li><li>2 - image to the right of the text</li><li>3 - image over the text</li><li>4 - image under the text</li></ul> Image layout
QuestionMultipleId	BIGINT	Not null	FK	References OPS_QuestionMultiple table

### Indices

Index	Columns
QuestionMultiple1	QuestionMultipleId
QuestionMultiple3	OptionIndex, QuestionMultipleId

### Foreign keys

Foreign key	Child	Parent
OPS_FK29	QuestionMultipleId	OPS_QuestionMultiple.QuestionMultipleId

## OPS\_QuestionNumeric

Defines a numeric question.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionNumericId	BIGINT	Not null	PK	Unique id
QuestionId	BIGINT	Not null	FK	References OPS_Question table
NumericType	INTEGER	Null		Defines type of number <ul style="list-style-type: none"><li>1 - INTEGER</li><li>2 - decimal</li></ul> Defines type of number
PrefixLabel	VARCHAR(255)	Null		Label before the field
PostfixLabel	VARCHAR(255)	Null		Label after the field
FieldSize	INTEGER	Null		Size of the field

### Indices

Index	Columns
QuestionNumeric_1	QuestionId

### Foreign keys

Foreign key	Child	Parent
OPS_FK10	OPS_BranchNumeric.QuestionNumericId	QuestionNumericId
OPS_FK30	QuestionId	OPS_Question.QuestionId

## OPS\_QuestionMatrix

Defines matrix question type.

## Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionMatrixId	BIGINT	Not null	PK	Unique id
Column_Count	INTEGER	Not null		Number of columns in the matrix
Row_Count	INTEGER	Not null		Number for rows in the matrix
QuestionId	BIGINT	Not null	FK	References OPS_Question table
VisibleRow_Count	BIGINT	Null	The default number of visible rows	
ShowHiddenRowsLabel	VARCHAR(255)	Null	Label for the button to show hidden rows	

## Indices

Index	Columns
QuestionMatrix_Q1	QuestionId

## Foreign keys

Foreign key	Child	Parent
OPS_FK4	OPS_BranchMatrix.QuestionMatrixId	QuestionMatrixId
OPS_FK6	OPS_BranchMatrixOption.QuestionMatrixId	QuestionMatrixId
OPS_FK24	QuestionId	OPS_Question.QuestionId
OPS_FK26	OPS_QuestionMatrixCell.QuestionMatrixId	QuestionMatrixId
OPS_FK27	OPS_QuestionMatrixGroup.QuestionMatrixId	QuestionMatrixId

## OPS\_QuestionMatrixGroup

One record represents one matrix group (a group of matrix cells).

## Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionMatrixGroupId	BIGINT	Not null	PK	Unique id
GroupName	VARCHAR	Null		Name of the cell group
Heading	VARCHAR(255)	Null		Group heading
GroupType	INTEGER	Null		Group type tells what kind of cells the group contains <ul style="list-style-type: none"> <li>1 - rating type, contains cells of radio type, one cell per row can be selected</li> <li>2 - ranking type, contains cells of checkbox type, one cell per column x row can be selected</li> <li>3 - intersection type, contains cells of radio type, only one cell can be selected</li> <li>4 - any cell type, contains cells of checkbox type, any cell can be selected</li> <li>5 - custom type, contains cells of different types</li> </ul> contains
BackgroundColour	VARCHAR(20)	Null		Background colour for this cell group
FromColumn	INTEGER	Not null		Start column for the cell group
ToColumn	INTEGER	Not null		End column for the cell group
FromRow	INTEGER	Not null		Start row for the cell group
ToRow	INTEGER	Not null		End row for the cell group
QuestionMatrixId	BIGINT	Not null	FK	References OPS_QuestionMatrix table
RowRotationOn	VARCHAR(5)	Null	Random row rotation on/off. Values: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Values:	

## Indices

Index	Columns
QuestionMatrixGr1	QuestionMatrixId

## Foreign keys



Foreign key	Child	Parent
OPS_FK27	QuestionMatrixId	OPS_QuestionMatrix.QuestionMatrixId

## OPS\_QuestionMatrixCell

One record represents one cell in a matrix.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionMatrixCellId	BIGINT	Not null	PK	Unique id
MatrixCellType	INTEGER	Not null		Defines type of the matrix cell. <ul style="list-style-type: none"> <li>1 - label</li> <li>2 - dropdown list</li> <li>3 - checkbox</li> <li>4 - radio button</li> <li>5 - text</li> <li>6 - numeric INTEGER</li> <li>7 - numeric decimal</li> <li>8 - image</li> </ul>
ColumnPosition	INTEGER	Not null		Column position of the cell
RowPosition	INTEGER	Not null		Row position of the cell
Label	VARCHAR(255)	Null		Label for a label cell
DropdownId	BIGINT	Null	FK	References OPS_Dropdown.
FieldSize	INTEGER	Null		Field size for text and numeric cell types
BackgroundColour	VARCHAR(20)	Null		Background colour for this cell
TextColour	VARCHAR(20)	Null		Text colour for a label cell
CellName	VARCHAR(255)	Null		Optional cell name, used in reports
QuestionMatrixId	BIGINT	Not null	FK	References OPS_QuestionMatrix table

### Indices

Index	Columns
QuestionMatrixCell	QuestionMatrixId

### Foreign keys

Foreign key	Child	Parent
OPS_FK25	DropdownId	OPS_Dropdown.DropdownId
OPS_FK26	QuestionMatrixId	OPS_QuestionMatrix.QuestionMatrixId

Foreign key	Child	Parent
		Id

## OPS\_QuestionFreeText

Free-text input for one question.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionFreeTextId	BIGINT	Not null	PK	Unique id
QuestionId	BIGINT	Not null	FK	References OPS_Question table
Row_Count	INTEGER	Null		Number of rows for the input text box
Column_Count	INTEGER	Null		Number of columns for the input text box
Required	VARCHAR(5)	Null		True if required input (not in use)
Label	VARCHAR(255)	Null		Text box label
MaxLength	INTEGER	Null		Maximum length of user input (not in use)

Free-text input for one question.

### Indices

Index	Columns
QuestionFreeText1	QuestionId

Free-text input for one question.

### Foreign keys

Foreign key	Child	Parent
OPS_FK23	QuestionId	OPS_Question.QuestionId

Free-text input for one question.

## OPS\_QuestionDropdown

Defines a dropdown question.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionDropdownId	BIGINT	Not null	PK	Unique id
QuestionId	BIGINT	Not null	FK	References OPS_Question table
DropdownId	BIGINT	Not null	FK	References OPS_Dropdown table. Id of the dropdown to use in this question.

Column	Data type	Allow NULLs	Key	Notes
DropdownMultipleOn	VARCHAR(5)	Null		Multiple selection on/off. Values: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul>
DropdownSize	INTEGER	Null		Multiple selection on/off. Values: The size of the dropdown box

## Indices

Index	Columns
QuestionDropdown1	QuestionId
QuestionDropdown2	QuestionId, DropdownId

## Foreign keys

Foreign key	Child	Parent
OPS_FK1	OPS_BranchDropdown.QuestionDropdownId	QuestionDropdownId
OPS_FK3	OPS_BranchDropdownOption.QuestionDropdownId	QuestionDropdownId
OPS_FK21	DropdownId	OPS_Dropdown.DropdownId
OPS_FK22	QuestionId	OPS_Question.QuestionId

## OPS\_QuestionComment

Stores question comments

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionCommentId	BIGINT	Not null	PK	Unique id
QuestionId	BIGINT	Not null		References OPS_Question.QuestionId
CommentText	TEXT	Null		The question comment
CommentBy	VARCHAR(50)	Null		Who added the comment
EntryDate	BIGINT	Null		When the comment was added

Stores question comments

## Foreign keys

Foreign key	Child	Parent
OPS_FK96	OPS_Question.QuestionId	QuestionId

## OPS\_Dropdown

One record represents one dropdown. Dropdowns stored in this table are dropdowns for dropdown question, essay field, matrix cell and reusable resources.

### Columns

Column	Data type	Allow NULLs	Key	Notes
DropdownId	BIGINT	Not null	PK	Unique id
DropdownName	VARCHAR(255)	Null		Name of dropdown list (applicable for reusable dropdowns)
DropdownLabel	VARCHAR(255)	Null		Dropdown label. This will be the default display of the dropdown, but the dropdown will have no value if this is selected.
MultipleOn	VARCHAR(5)	Null		Multiple selection. Values: <ul style="list-style-type: none"><li>• true</li><li>• false</li></ul> Multiple selection. Values:
DropdownSize	INTEGER	Null		Size of the dropdown box
SortOn	VARCHAR(5)	Null		Sorting of dropdown items. Values: <ul style="list-style-type: none"><li>• true</li><li>• false</li></ul> Sorting of dropdown items. Values:
QuestionId	VARCHAR(5)	Null		If the dropdown belongs to a question, QuestionId is set. If the dropdown is in the reusable resources (dropdown bank), the QuestionId is NULL or 0.
DropdownType	int	Null		Type of the dropdown: <ul style="list-style-type: none"><li>• 0 - dropdown belongs to reusable resources (dropdown bank)</li><li>• 1 - dropdown belongs to a question essay field</li><li>• 2 - dropdown belongs to a matrix cell</li><li>• 3 - dropdown belongs to a question og type dropdown</li></ul> Type of the dropdown:

field, matrix cell and reusable resources.

### Indices

Index	Columns
Dropdown_Questio1	QuestionId

field, matrix cell and reusable resources.

## Foreign keys

Foreign key	Child	Parent
OPS_FK14	OPS_DropdownItem.DropdownId	DropdownId
OPS_FK21	OPS_QuestionDropdown.DropdownId	DropdownId
OPS_FK25	OPS_QuestionMatrixCell.DropdownId	DropdownId
OPS_FK32	OPS_QuestionTagField.DropdownId	DropdownId

## OPS\_DropdownItem

One entry in a dropdown list.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ItemName	VARCHAR(255)	Not null		Name of the dropdown list entry (display label)
ItemValue	VARCHAR(255)	Null		Value of the dropdown list entry
SortValue	INTEGER	Null		Contains sequential numbers used for sorting. When selecting, items are sorted by SortValue, then ItemName
DropdownId	BIGINT	Not null	FK	References OPS_Dropdown table

### Indices

Index	Columns
DropdownItem_dro1	DropdownId

## Foreign keys

Foreign key	Child	Parent
OPS_FK14	DropdownId	OPS_Dropdown.DropdownId

## OPS\_Validator

Validator for a question. A validator can validate a simple text or numeric field, or a whole question.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ValidatorId	BIGINT	Not null	PK	Unique id

Column	Data type	Allow NULLs	Key	Notes
ValidatorType	INTEGER	Not null		<p>Validator type defines what kind of validation will be done. Varies for different kinds of target types:</p> <ul style="list-style-type: none"> <li>Target: numeric field <ul style="list-style-type: none"> <li>1 - Numeric response is a number</li> <li>2 - Essay response is a number</li> <li>3 - Matrix cell response is a number</li> <li>4 - Tag field response is a number</li> <li>5 - Numeric response required</li> <li>6 - Essay response required</li> <li>7 - Matrix cell response required</li> <li>8 - Tag field response required</li> <li>9 - Maximum value for numeric response</li> <li>10 - Maximum value for an essay response</li> <li>11 - Maximum value for a matrix cell response</li> <li>12 - Maximum value for a tag field response</li> <li>13 - Minimum value for numeric response</li> <li>14 - Minimum value for an essay response</li> <li>15 - Minimum value for a matrix cell response</li> <li>16 - Minimum value for a tag field response</li> <li>17 - Valid range for numeric response</li> <li>18 - Valid range for an essay response</li> <li>19 - Valid range for a matrix cell response</li> <li>20 - Valid range for a tag field response</li> </ul> </li> <li>Target: numeric field</li> <li>Target: text field <ul style="list-style-type: none"> <li>1 - Free text required</li> <li>2 - Essay response required</li> <li>3 - Tag field response required</li> <li>4 - Matrix cell response required</li> <li>5 - Maximum text length for free text</li> <li>6 - Maximum text length for an essay field</li> <li>7 - Maximum text length for tag field</li> <li>8 - Maximum text length for matrix cell</li> <li>9 - Minimum text length for free text</li> <li>10 - Minimum text length for an essay field</li> <li>12 - Minimum text length for tag field</li> <li>13 - Minimum text length for matrix cell</li> <li>14 - Email Validator type for free text</li> <li>15 - Email Validator type for an essay field</li> </ul> </li> </ul>

Column	Data type	Allow NULLs	Key	Notes
				<ul style="list-style-type: none"> <li>• 16 - Email Validator type for tag field</li> <li>• 17 - Email Validator type for matrix cell</li> <li>• 18 - Date type for free text</li> <li>• 19 - Date type for an essay field</li> <li>• 20 - Date type for tag field</li> <li>• 21 - Date type for matrix cell</li> <li>• 22 - Contains a word/text for free text</li> <li>• 23 - Contains a word/text for an essay field</li> <li>• 24 - Contains a word/text for tag field</li> <li>• 25 - Contains a word/text for matrix cell</li> <li>• 26 - Regular expressions for free text</li> <li>• 27 - Regular expressions for an essay field</li> <li>• 28 - Regular expressions for tag field</li> <li>• 29 - Regular expressions for matrix cell</li> </ul> <p>Target: multiple-choice question</p> <ul style="list-style-type: none"> <li>• 1 - Response required</li> <li>• 2 - Minimum number of choices</li> <li>• 3 - Maximum number of choices</li> <li>• 4 - Number of choices</li> </ul> <p>Target: multiple-choice question</p> <p>Target: rating question</p> <ul style="list-style-type: none"> <li>• 1 - Rating response required</li> </ul> <p>Target: rating question</p> <p>Target: matrix question</p> <ul style="list-style-type: none"> <li>• 1 - Group response required</li> <li>• 2 - Group response ranking required</li> <li>• 3 - Response ranking, not required</li> <li>• 4 - Minimum number of choices for group</li> <li>• 5 - Maximum number of choices for group</li> <li>• 6 - Required number of choices for group</li> <li>• 7 - Minimum number of choices for group row</li> <li>• 8 - Maximum number of choices for group row</li> <li>• 9 - Required number of choices for group row</li> <li>• 10 - Minimum number of choices for group column</li> <li>• 12 - Maximum number of choices for group column</li> <li>• 13 - Required number of choices for group column</li> <li>• 14 - Sum of cells equals</li> <li>• 15 - Sum of cells is less then</li> <li>• 16 - Sum of cells is greater then</li> </ul> <p>Target: matrix question</p>

Column	Data type	Allow NULLs	Key	Notes
				<ul style="list-style-type: none"> <li>Target: essay question <ul style="list-style-type: none"> <li>1 - Sum of field inputs equals</li> <li>2 - Maximum value for the sum of fields</li> <li>3 - Minimum value for the sum of fields</li> </ul> </li> <li>Target: essay question</li> <li>Target: dropdown <ul style="list-style-type: none"> <li>1 - Dropdown response required</li> <li>2 - Minimum number of choices</li> <li>3 - Maximum number of choices</li> <li>4 - Minimum number of choices</li> <li>5 - Essay field response required</li> <li>6 - Matrix cell response required</li> <li>7 - Multiple response required</li> </ul> </li> <li>Target: dropdown</li> </ul>
TargetType	INTEGER	Not null		<p>Target type defines which field / question type this validator will validate.</p> <ul style="list-style-type: none"> <li>1 - numeric question/field</li> <li>2 - text field</li> <li>3 - multiple question</li> <li>4 - rating question</li> <li>5 - matrix question</li> <li>6 - essay field</li> <li>7 - dropdown question/field</li> </ul> <p>this validator will validate.</p>
TargetIndex1	INTEGER	Null		Index 1 for target. Can be index for multiple option in multiple question, or index for essay field in essay, or column for the first cell to validate in matrix question.
TargetIndex2	INTEGER	Null		Index 2 for target. Row for the first cell to validate (in matrix question).
TargetIndex3	INTEGER	Null		Index 3 for target. Column for the last cell to validate (in matrix question)
TargetIndex4	INTEGER	Null		Index 3 for target. Row for the last cell to validate (in matrix question)
LongTargetIndex	BIGINT	Null		Long value for target. Used most for matrix group id.
LongValue1	BIGINT	Null		The comparing long value 1. Example: maximum value for numeric, or maximum text length, start value for valid range.
LongValue2	BIGINT	Null		The comparing long value 2. Example: end value for valid range.
TextValue	VARCHAR(255)	Null		The comparing text value. Example: a word that response value must contain.
BigTextValue	TEXT	Null		The comparing big text value. Like TextValue.
DoubleValue1	float	Null		The comparing double value 1. Example:



Column	Data type	Allow NULLs	Key	Notes
				maximum value for numeric, or start value for valid range
DoubleValue2	float	Null		The comparing double value 2. Example: End value for valid range.
Description	VARCHAR(255)	Null		Validator description
ErrorMessage	VARCHAR(255)	Null		Error message to show to the user if validation fails.
TargetId	VARCHAR(255)	Null		Text target id. Used for in-text elements.
QuestionId	BIGINT	Not null	FK	References OPS_Question table

## Indices

Index	Columns
Validator1	QuestionId

## Foreign keys

Foreign key	Child	Parent
OPS_FK77	QuestionId	OPS_Question.QuestionId
OPS_FK92	ValidatorId	OPS_ValidatorAttribute.ValidatorId

## OPS\_ValidatorAttribute

One record represents one validator attribute.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ValidatorAttributeId	BIGINT	Not null	PK	Unique id
AttributeKey	VARCHAR(255)	Not null		Validator attribute key
AttributeValue	VARCHAR(255)	Null		String value of the attribute
ValidatorId	BIGINT	Not null	FK	References OPS_Validator table

One record represents one validator attribute.

## Indices

Index	Columns
ValidatorAttribute1	ValidatorId

One record represents one validator attribute.

## Foreign keys

Foreign key	Child	Parent
OPS_FK92	ValidatorId	OPS_Validator.ValidatorId

## OPS\_Branch

One record defines the branching information for a condition of type rating/scale. Rating branch allows to filter out some questions after response to a rating question.

### Columns

Column	Data type	Allow NULLs	Key	Notes
BranchId	BIGINT	Not null	PK	Unique id
BranchTitle	VARCHAR(255)	Null		Name of the branch condition
FilterArray	TEXT	Not null		Information about which questions to filter out. Question numbers separated by comma and enclosed in braces. Index 0 in the filterArray corresponds to the first question, 1 to the second and so on. Example: {2, 3, 4} excludes question 3, 4 and 5.
LastQuestionNo	INTEGER	Not null		The last question number in the condition
Formula	VARCHAR(255)	Null		A formula used as a condition
SurveyId	BIGINT	Not null	FK	The survey id for the condition

## Foreign keys

Foreign key	Child	Parent
OPS_FKXX	OPS_Survey.SurveyId	SurveyId

## OPS\_BranchRating

One record defines the branching information for a condition of type rating/scale. Rating branch allows to filter out some questions after response to a rating question.

### Columns

Column	Data type	Allow NULLs	Key	Notes
BranchRatingId	BIGINT	Not null	PK	Unique id
BranchType	INTEGER	Null		Branch types: <ul style="list-style-type: none"> <li>0 - type 'one', respondent must select one of the values in the condition</li> <li>1 - type "", respondent must not select any of the values in the condition</li> </ul>
				Branch types.

Column	Data type	Allow NULLs	Key	Notes
QuestionRatingId	BIGINT	Not null	FK	References OPS_QuestionRating table
BranchId	BIGINT	Not null	FK	References OPS_Branch table
FormulaId	VARCHAR(5)	Not null		A formula id
QuestionNo	INTEGER	Not null		The question number

## Indices

Index	Columns
BranchRating_QUE1	QuestionRatingId

## Foreign keys

Foreign key	Child	Parent
OPS_FK11	QuestionRatingId	OPS_QuestionRating.QuestionRatingId
OPS_FK12	OPS_BranchRatingOption.BranchRatingId	BranchRatingId
OPS_FKXX	OPS_Branch.BranchId	BranchId

## OPS\_BranchRatingOption

One record represents one option for a rating/scale branching condition. One or many options make up a complete rating condition, connected to the OPS\_BranchRating table.

### Columns

Column	Data type	Allow NULLs	Key	Notes
Value	INTEGER	Null		Rating option position. Starts at 0.
BranchRatingId	BIGINT	Not null	FK	References OPS_BranchRating table
QuestionRatingId	BIGINT	Not null	FK	References OPS_QuestionRating table

rating condition, connected to the OPS\_BranchRating table.

## Indices

Index	Columns
BranchRatingOpti1	BranchRatingId
BranchRatingOpti2	QuestionRatingId
BranchRatingOpti3	Value, BranchRatingId, QuestionRatingId

rating condition, connected to the OPS\_BranchRating table.

## Foreign keys

Foreign key	Child	Parent
OPS_FK12	BranchRatingId	OPS_BranchRating.BranchRatingId
OPS_FK13	QuestionRatingId	OPS_QuestionRating.QuestionRatingId

## OPS\_BranchMultiple

One record represents branching condition of type multiple choice. Multiple branch allows to filter out some questions based on the response to a multiple-choice question.

## Columns

Column	Data type	Allow NULLs	Key	Notes
BranchMultipleId	BIGINT	Not null	PK	Unique id
BranchType	INTEGER	Null		Branch types: <ul style="list-style-type: none"><li>0 - type 'at least one', respondent must select at least one of the values in the condition</li><li>1 - type "", respondent must not select any of the values in the condition</li><li>2 - type 'all', respondent must select all values in the condition</li></ul> Branch types:
BranchId	BIGINT	Not null	FK	References OPS_Branch table
FormulaId	VARCHAR(5)	Not null		A formula id
QuestionNo	INTEGER	Not null		The question number

## Indices

Index	Columns
BranchMultiple_Q1	QuestionMultipleId

## Foreign keys

Foreign key	Child	Parent
OPS_FK7	QuestionMultipleId	OPS_QuestionMultiple.QuestionMultipleId
OPS_FK8	OPS_BranchMultipleOption.BranchMultipleId	BranchMultipleId
OPS_FKXX	OPS_Branch.BranchId	BranchId

## OPS\_BranchMultipleOption

One record represents option of a branch condition of type multiple choice. One or many options make up a complete multiple condition, connected to the OPS\_BranchMultiple table.

### Columns

Column	Data type	Allow NULLs	Key	Notes
Value	INTEGER	Null		Position of the multiple option. Starts at 0.
BranchMultipleId	BIGINT	Not null	FK	References OPS_BranchMultiple table
QuestionMultipleId	BIGINT	Not null	FK	References OPS_QuestionMultiple table

complete multiple condition, connected to the OPS\_BranchMultiple table.

### Indices

Index	Columns
BranchMultipleOp1	BranchMultipleId
BranchMultipleOp2	QuestionMultipleId
BranchMultipleOp3	Value, BranchMultipleId, QuestionMultipleId

complete multiple condition, connected to the OPS\_BranchMultiple table.

### Foreign keys

Foreign key	Child	Parent
OPS_FK8	BranchMultipleId	OPS_BranchMultiple.BranchMultipleId
OPS_FK9	QuestionMultipleId	OPS_QuestionMultiple.QuestionMultipleId

complete multiple condition, connected to the OPS\_BranchMultiple table.

## OPS\_BranchNumeric

One question represents a branching condition of type numeric. Numeric branch allows to filter out some questions if response to a numeric question is greater than minLongValue(minDoubleValue) or/and less then maxLongValue(maxDoubleValue) inclusive.

### Columns

Column	Data type	Allow NULLs	Key	Notes
BranchNumericId	BIGINT	Not null	PK	Unique id
BranchType	INTEGER	Null		Branch types: <ul style="list-style-type: none"><li>0 - type 'max', condition evaluates to true if response value is less or equals the maximum value.</li></ul>

Column	Data type	Allow NULLs	Key	Notes
				<ul style="list-style-type: none"> <li>1 - type 'min', condition evaluates to true if response value is greater or equals the minimum value</li> <li>2 - type 'range', condition evaluates to true if response value is in the specified range, inclusive bounds.</li> </ul>
MinLongValue	BIGINT	Null		Minimum INTEGER value for the numeric condition
MaxLongValue	BIGINT	Null		Maximum INTEGER value for the numeric condition
MinDoubleValue	DOUBLE	Null		Minimum double value for the numeric condition
MaxDoubleValue	DOUBLE	Null		Maximum double value for the numeric condition
QuestionNumericId	BIGINT	Not null	FK	References OPS_QuestionNumeric table
BranchId	BIGINT	Not null	FK	References OPS_Branch table
FormulaId	VARCHAR(5)	Not null		A formula id
QuestionNo	INTEGER	Not null		The question number

## Indices

Index	Columns
BranchNumeric_Qu1	QuestionNumericId

## Foreign keys

Foreign key	Child	Parent
OPS_FK10	QuestionNumericId	OPS_QuestionNumeric.QuestionNumericId
OPS_FKXX	OPS_Branch.BranchId	BranchId

## OPS\_BranchDropdown

One record represents branching condition of type dropdown. Dropdown branch allows to filter out some questions based on response to a dropdown question

### Columns

Column	Data type	Allow NULLs	Key	Notes
BranchDropdownId	BIGINT	Not null	PK	Unique id
BranchType	INTEGER	Null		Branch types:

Column	Data type	Allow NULLs	Key	Notes
				<ul style="list-style-type: none"> <li>0 - type 'at least one', respondent must select at least one of the values in the condition</li> <li>1 - type ", respondent must not select any of the values in the condition</li> <li>2 - type 'all', respondent must select all values in the condition</li> </ul>
QuestionDropdownId	BIGINT	Not null	FK	References OPS_QuestionDropdown table
BranchId	BIGINT	Not null	FK	References OPS_Branch table
FormulaId	VARCHAR(5)	Not null		A formula id
QuestionNo	INTEGER	Not null		The question number

## Indices

Index	Columns
BranchDropdown_Q1	QuestionDropdownId
OPS_FKXX	OPS_Branch.BranchId

## Foreign keys

Foreign key	Child	Parent
OPS_FK1	QuestionDropdownId	OPS_QuestionDropdown.QuestionDropdownId
OPS_FK2	OPS_BranchDropdownOption.BranchDropdownId	BranchDropdownId

## OPS\_BranchDropdownOption

One record represents option (item) of a branch condition of type dropdown. One or many options make up a complete dropdown condition, connected to the OPS\_BranchDropdown table.

## Columns

Column	Data type	Allow NULLs	Key	Notes
TextValue	VARCHAR(255)	Null		The condition value (dropdown item value)
BranchDropdownId	BIGINT	Not null	FK	References OPS_BranchDropdown table
QuestionDropdownId	BIGINT	Not null	FK	References OPS_QuestionDropdown table

## Indices

Index	Columns
BranchDropdownOp1	BranchDropdownId
BranchDropdownOp2	QuestionDropdownId

## Foreign keys

Foreign key	Child	Parent
OPS_FK2	BranchDropdownId	OPS_BranchDropdown.BranchDropdownId
OPS_FK3	QuestionDropdownId	OPS_QuestionDropdown.QuestionDropdownId

## OPS\_BranchMatrix

One record represents branching condition of matrix type. Matrix branch allows to filter out some questions based on the response to a matrix question (branching on radio buttons and checkboxes only).

## Columns

Column	Data type	Allow NULLs	Key	Notes
BranchMatrixId	BIGINT	Not null	PK	Unique id
BranchType	INTEGER	Null		Branch types: <ul style="list-style-type: none"> <li>0 - type 'at least one', respondent must select at least one of the values in the condition</li> <li>1 - type '', respondent must not select any of the values in the condition</li> <li>2 - type 'all', respondent must select all values in the condition</li> </ul> Branch types:
QuestionMatrixId	BIGINT	Not null	FK	References OPS_QuestionMatrix table
BranchId	BIGINT	Not null	FK	References OPS_Branch table
FormulaId	VARCHAR(5)	Not null		A formula id
QuestionNo	INTEGER	Not null		The question number

the response to a matrix question (branching on radio buttons and checkboxes only).

## Indices

Index	Columns
BranchMatrix_QUE1	QuestionMatrixId

the response to a matrix question (branching on radio buttons and checkboxes only).

## Foreign keys



Foreign key	Child	Parent
OPS_FK4	QuestionMatrixId	OPS_QuestionMatrix.QuestionMatrixId
OPS_FK5	OPS_BranchMatrixOption.BranchMatrixId	BranchMatrixId
OPS_FKXX	OPS_Branch.BranchId	BranchId

## OPS\_BranchMatrixOption

One option in a matrix condition. One or many options make up a complete matrix condition, connected to the OPS\_BranchMatrix table.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ColumnValue	INTEGER	Null		The column position of the option.
RowValue	INTEGER	Null		The row position of the option.
BranchMatrixId	BIGINT	Not null	FK	References OPS_BranchMatrix table
QuestionMatrixId	BIGINT	Not null	FK	References OPS_QuestionMatrix table

### Indices

Index	Columns
BranchMatrixOpti1	QuestionMatrixId
BranchMatrixOpti2	BranchMatrixId
BranchMatrixOpti2	ColumnValue, RowValue, BranchMatrixId, QuestionMatrixId

### Foreign keys

Foreign key	Child	Parent
OPS_FK5	BranchMatrixId	OPS_BranchMatrix.BranchMatrixId
OPS_FK6	QuestionMatrixId	OPS_QuestionMatrix.QuestionMatrixId

## OPS\_Invitation

Defines survey invitation.

### Columns

Column	Data type	Allow NULLs	Key	Notes
InvitationId	BIGINT	Not null	PK	Unique id

Column	Data type	Allow NULLs	Key	Notes
InvitationName	VARCHAR(255)	Not null		Invitation name
FromName	VARCHAR(50)	Not null		Name of invitation author
FromEmail	VARCHAR(100)	Not null		Email of invitation author
InvitationDate	BIGINT	Not null		Date when the invitation will be sent, in milliseconds
Reminder1Date	BIGINT	Null		Date when the first reminder should be sent, in milliseconds
Reminder2Date	BIGINT	Null		Date when the second reminder should be sent, in milliseconds
Reminder3Date	BIGINT	Null		Date when the third reminder should be sent, in milliseconds
Reminder4Date	BIGINT	Null		Date when the fourth reminder should be sent, in milliseconds
Reminder5Date	BIGINT	Null		Date when the fifth reminder should be sent, in milliseconds
ReminderInterval	INTEGER	Null		DEPRECATED. Interval between each reminder, in milliseconds
ReminderTime	BIGINT	Null		DEPRECATED
ReminderCount	INTEGER	Not null		DEPRECATED. The number of times to send reminder to the invitees who have not responded.
ContentType	VARCHAR(20)	Not null		Email content type. Values: <ul style="list-style-type: none"><li>• text/html</li><li>• text/plain</li></ul> Email content type. Values:
InvitationSubject	VARCHAR(255)	Not null		The subject in the email with invitation.
InvitationMessage	TEXT	Not null		The content of the email with invitation.
ReminderSubject	VARCHAR(255)	Null		The subject in the email with reminder.
ReminderMessage	TEXT	Null		The content in the email with reminder.
LastReminderSubject	VARCHAR(255)	Null		The subject in the email with last reminder.
LastReminderMessage	TEXT	Null		The content in the email with last reminder.
SurveyId	BIGINT	Not null	FK	References OPS_Survey table
TaskId	BIGINT	Not null		Id of the scheduled task
InvitationSentDate	BIGINT	Null		Time in milliseconds when invitation was actually sent
Reminder1SentDate	BIGINT	Null		Time in milliseconds when the first reminder was actually sent
Reminder2SentDate	BIGINT	Null		Time in milliseconds when the second reminder was actually sent
Reminder3SentDate	BIGINT	Null		Time in milliseconds when the third reminder was actually sent
Reminder4SentDate	BIGINT	Null		Time in milliseconds when the fourth reminder

Column	Data type	Allow NULLs	Key	Notes
te				was actually sent
Reminder5SentDate	BIGINT	Null		Time in milliseconds when the fifth reminder was actually sent

## Indices

Index	Columns
Invitation_Survey1	SurveyId

## Foreign keys

Foreign key	Child	Parent
OPS_FK16	SurveyId	OPS_Survey.SurveyId
OPS_FK18	OPS_Invitee.InvitationId	InvitationId

## OPS\_Invitee

One record for one invitee.

## Columns

Column	Data type	Allow NULLs	Key	Notes
InviteeId	BIGINT	Not null	PK	Unique id
InviteeName	VARCHAR(100)	Null		Name of the invitee
InviteeEmail	VARCHAR(100)	Null		Email of the invitee
SentDate	BIGINT	Null		Date when the invitation to this invitee was sent, in milliseconds
IdKey	VARCHAR(100)	Null		Key to identify the invitee
ReminderCount	INTEGER	Null		Number of reminders sent
Status	INTEGER	Null		Status of the invitee: <ul style="list-style-type: none"><li>• 0 - invitation is pending</li><li>• 1 - the invitation has been sent</li><li>• 2 - reminder has been sent</li><li>• 3 - error occurred while sending invitation</li><li>• 4 - error occurred while sending reminder</li><li>• 5 - email address is invalid</li></ul> Status of the invitee:
RespondentId	BIGINT	Null		Id of the respondent. Exists when the invitee has responded to the survey. Equals -1 if responded, but the invitation is anonym.
InvitationId	BIGINT	Not null	FK	References OPS_Invitation table
AttributesExist	VARCHAR(5)	Null		True if invitee attributes exist in the OPS_InviteeAttribute table. Values:

Column	Data type	Allow NULLs	Key	Notes
				<ul style="list-style-type: none"><li>true</li><li>false</li></ul>

## Indices

Index	Columns
Invitee_Response1	RespondentId
Invitee_Invitati1	InvitationId

## Foreign keys

Foreign key	Child	Parent
OPS_FK18	InvitationId	OPS_Invitation.InvitationId
OPS_FK97	InviteeId	OPS_InviteeAttribute.InviteeId

## OPS\_InviteeAttribute

One record represents one invitee attribute.

## Columns

Column	Data type	Allow NULLs	Key	Notes
InviteeAttributeId	BIGINT	Not null	PK	Unique id
AttributeName	VARCHAR(30)	Not null		Short attribute name
StringValue	VARCHAR(255)	Null		String value of the attribute
InviteeId	BIGINT	Not null	FK	References OPS_Invitee table
InvitationId	BIGINT	Not null	FK	References OPS_Invitation table

One record represents one invitee attribute.

## Indices

Index	Columns
InviteeAttribute_1	InviteeId

One record represents one invitee attribute.

## Foreign keys

Foreign key	Child	Parent
OPS_FK97	InviteeId	OPS_Invitee.InviteeId

## OPS\_Respondent

Each time a new respondent responds to a survey, one record is created.

### Columns

Column	Data type	Allow NULLs	Key	Notes
RespondentId	BIGINT	Not null	PK	Unique id
SurveyId	BIGINT	Not null	FK	References OPS_Survey table
IPAddress	VARCHAR(50)	Null		Respondent's IP address
Ticket	VARCHAR(20)	Null		Ticket to the survey
EntryDate	BIGINT	Null		Timestamp of the first response
CompletedDate	BIGINT	Null		Timestamp of the last response
LastResponse	INTEGER	Null		Number of the last question responded
DeleteStatus	INTEGER	Null		(not in use)
LastUpdated	INTEGER	Null		Timestamp for last updated
AttributesExist	VARCHAR(5)	Null		True if respondent attributes exist in the OPS_RespondentAttribute table. Values: <ul style="list-style-type: none"><li>• true</li><li>• false</li></ul> OPS_RespondentAttribute table. Values:
LanguageCode	VARCHAR(10)	Null		Language code for the last selected survey language.

Each time a new respondent responds to a survey, one record is created.

### Indices

Index	Columns
Respondent1	SurveyId, RespondentId, EntryDate, CompletedDate
Respondent2	CompletedDate, SurveyId
Respondent_Survey1	SurveyId, IPAddress, CompletedDate

Each time a new respondent responds to a survey, one record is created.

### Foreign keys

Foreign key	Child	Parent
OPS_FK38	SurveyId	OPS_Survey.SurveyId
OPS_FK40	OPS_ResponseDropdown.RespondentId	RespondentId
OPS_FK42	OPS_ResponseEssay.RespondentId	RespondentId
OPS_FK44	OPS_ResponseEssayNum.RespondentId	RespondentId

Foreign key	Child	Parent
OPS_FK47	OPS_ResponseEssayText.RespondentId	RespondentId
OPS_FK50	OPS_ResponseFreeText.RespondentId	RespondentId
OPS_FK52	OPS_ResponseMatrix.RespondentId	RespondentId
OPS_FK54	OPS_ResponseMatrixNum.RespondentId	RespondentId
OPS_FK57	OPS_ResponseMatrixText.RespondentId	RespondentId
OPS_FK60	OPS_ResponseMultipleOption.RespondentId	RespondentId
OPS_FK62	OPS_ResponseMultipleOptionNum.RespondentId	RespondentId
OPS_FK65	OPS_ResponseMultipleOptionText.RespondentId	RespondentId
OPS_FK68	OPS_ResponseNumeric.RespondentId	RespondentId
OPS_FK70	OPS_ResponseRating.RespondentId	RespondentId
OPS_FK85	OPS_ReportRespondent.RespondentId	RespondentId
OPS_FK93	OPS_RespondentAttribute.RespondentId	RespondentId

## OPS\_RespondentAttribute

One record represents one respondent attribute.

### Columns

Column	Data type	Allow NULLs	Key	Notes
RespondentAttributeId	BIGINT	Not null	PK	Unique id
AttributeName	VARCHAR(30)	Not null		Short attribute name
StringValue	VARCHAR(255)	Null		String value of the attribute
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table

One record represents one respondent attribute.

### Indices

Index	Columns
RespondentAttribute_1	RespondentId

One record represents one respondent attribute.

## Foreign keys

Foreign key	Child	Parent
OPS_FK93	RespondentId	OPS_Respondent.RespondentId

## OPS\_ResponseFreeText

Answer to a free text.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table
TextValue	TEXT	Null		The free text answer
ResponseDate	BIGINT	Null		The response timestamp

### Indices

Index	Columns
ResponseFreeText1	RespondentId
ResponseFreeText4	QuestionId
*ResponseFreeText5	QuestionId, RespondentId

(\* = Unique index)

## Foreign keys

Foreign key	Child	Parent
OPS_FK49	QuestionId	OPS_Question.QuestionId
OPS_FK50	RespondentId	OPS_Respondent.RespondentId

## OPS\_ResponseNumeric

Answer to a numeric question.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table
LongValue	BIGINT	Null		The numeric answer, INTEGER/long

Column	Data type	Allow NULLs	Key	Notes
DecValue	DOUBLE	Null		The numeric answer, decimal
ResponseDate	BIGINT	Null		The response timestamp

## Indices

Index	Columns
ResponseNumeric_1	QuestionId
ResponseNumeric_2	RespondentId
*ResponseNumeric_3	QuestionId, RespondentId

(\* = Unique index)

## Foreign keys

Foreign key	Child	Parent
OPS_FK67	QuestionId	OPS_Question.QuestionId
OPS_FK68	RespondentId	OPS_Respondent.RespondentId

## OPS\_ResponseEssay

Response to an essay field. One record exists for each essay field response.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ResponseEssayId	BIGINT	Not null	PK	Unique id
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table
FieldIndex	smallint	Null		Index of the essay field, starts at 0
ResponseDate	BIGINT	Null		The response timestamp

## Indices

Index	Columns
ResponseEssay_Qu1	QuestionId, FieldIndex
ResponseEssay1	RespondentId
*ResponseEssay2	QuestionId, RespondentId, FieldIndex

(\* = Unique index)



## Foreign keys

Foreign key	Child	Parent
OPS_FK41	QuestionId	OPS_Question.QuestionId
OPS_FK42	RespondentId	OPS_Respondent.RespondentId
OPS_FK45	OPS_ResponseEssayNum.ResponseEssayId	ResponseEssayId
OPS_FK48	OPS_ResponseEssayText.ResponseEssayId	ResponseEssayId

## OPS\_ResponseEssayText

Response to an essay field of type text and dropdown.

## Columns

Column	Data type	Allow NULLs	Key	Notes
TextValue	VARCHAR(255)	Null		The text answer or value of the selected dropdown item
ResponseEssayId	BIGINT	Not null	FK	References OPS_ResponseEssay table
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table

## Indices

Index	Columns
*ResponseEssayTex1	ResponseEssayId
ResponseEssayTex2	QuestionId
ResponseEssayTex3	RespondentId

(\* = Unique index)

## Foreign keys

Foreign key	Child	Parent
OPS_FK46	QuestionId	OPS_Question.QuestionId
OPS_FK47	RespondentId	OPS_Respondent.RespondentId
OPS_FK48	ResponseEssayId	OPS_ResponseEssay.ResponseEssayId

## OPS\_ResponseEssayNum

Response to a numeric field.

## Columns

Column	Data type	Allow NULLs	Key	Notes
LongValue	BIGINT	Null		Response of type INTEGER/long
DecValue	DOUBLE	Null		Response of type decimal
ResponseEssayId	BIGINT	Not null	FK	References OPS_ResponseEssay table
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table

## Indices

Index	Columns
*ResponseEssayNum1	ResponseEssayId
ResponseEssayNum2	QuestionId

(\* = Unique index)

## Foreign keys

Foreign key	Child	Parent
OPS_FK43	QuestionId	OPS_Question.QuestionId
OPS_FK44	RespondentId	OPS_Respondent.RespondentId
OPS_FK45	ResponseEssayId	OPS_ResponseEssay.ResponseEssayId

## OPS\_ResponseRating

Response to a rating question.

## Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table
Value	INTEGER	Null		The selected option position. Starts at 1, 0 for N/A option.
ResponseDate	BIGINT	Null		The response timestamp

## Indices

Index	Columns
*ResponseRating1	QuestionId, RespondentId
ResponseRating_Q1	QuestionId
ResponseRating_R1	RespondentId

(\* = Unique index)

### Foreign keys

Foreign key	Child	Parent
OPS_FK69	QuestionId	OPS_Question.QuestionId
OPS_FK70	RespondentId	OPS_Respondent.RespondentId

## OPS\_ResponseDropdown

Response to a dropdown question. Multiple records exist for one dropdown question if multiple selection is on.

### Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table
TextValue	VARCHAR(100)	Not null		Value of the selected dropdown item
ResponseDate	BIGINT	Null		The response timestamp

### Indices

Index	Columns
ResponseDropdown1	QuestionId, RespondentId
ResponseDropdown2	QuestionId, TextValue

### Foreign keys

Foreign key	Child	Parent
OPS_FK39	QuestionId	OPS_Question.QuestionId
OPS_FK40	RespondentId	OPS_Respondent.RespondentId

## OPS\_ResponseMultipleOption

Response to a multiple-choice question. Multiple records exist for one multiple-choice question if multiple selection is on.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ResponseMultipleOptionId	BIGINT	Not null	PK	Unique id
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table
OptionIndex	smallint	Null		The index of the selected multiple option. Starts at 0.
ResponseDate	BIGINT	Null		The response timestamp

## Indices

Index	Columns
ResponseMultiple2	QuestionId, OptionIndex
ResponseMultiple5	RespondentId, QuestionId
*ResponseMultiple7	QuestionId, RespondentId, OptionIndex

(\* = Unique index)

## Foreign keys

Foreign key	Child	Parent
OPS_FK59	QuestionId	OPS_Question.QuestionId
OPS_FK60	RespondentId	OPS_Respondent.RespondentId
OPS_FK63	OPS_ResponseMultipleOptionNum. ResponseMultipleOptionId	ResponseMultipleOptionId
OPS_FK66	OPS_ResponseMultipleOptionText. ResponseMultipleOptionId	ResponseMultipleOptionId

## OPS\_ResponseMultipleOptionText

Response to a text field (or dropdown list) for a selected option. Currently used to store response to 'Other' field.

## Columns

Column	Data type	Allow NULLs	Key	Notes
TextValue	VARCHAR(255)	Null		Text response to a field or value of the selected dropdown item
ResponseMultipleOptionId	BIGINT	Not null	FK	References OPS_ResponseMultipleOption table
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table

## Indices

Index	Columns
*ResponseMultiple1	ResponseMultipleOptionId
ResponseMultiple3	QuestionId
ResponseMultiple4	RespondentId

(\* = Unique index)

## Foreign keys

Foreign key	Child	Parent
OPS_FK64	QuestionId	OPS_Question.QuestionId
OPS_FK65	RespondentId	OPS_Respondent.RespondentId
OPS_FK66	ResponseMultipleOptionId	OPS_ResponseMultipleOption.ResponseMultipleOptionId

## OPS\_ResponseMultipleOptionNum

Response to an numeric field for a selected option. Not in use.

## Columns

Column	Data type	Allow NULLs	Key	Notes
LongValue	BIGINT	Null		Response to a numeric field in multiple question, type INTEGER/long
DecValue	DOUBLE	Null		Response to a numeric field in multiple question, type decimal
ResponseMultipleOptionId	BIGINT	Not null	FK	References OPS_ResponseMultipleOption table
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table

## Indices

Index	Columns
*ResponseMultiple6	ResponseMultipleOptionId

(\* = Unique index)

## Foreign keys

Foreign key	Child	Parent
OPS_FK61	QuestionId	OPS_Question.QuestionId
OPS_FK62	RespondentId	OPS_Respondent.RespondentId
OPS_FK63	ResponseMultipleOptionId	OPS_ResponseMultipleOption.ResponseMultipleOptionId

## OPS\_ResponseMatrix

Response to a matrix question, one record for each cell response.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ResponseMatrixId	BIGINT	Not null	PK	Unique id
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table
RowPosition	INTEGER	Not null		Row position of the cell
ColumnPosition	INTEGER	Not null		Column position of the cell
ResponseDate	BIGINT	Null		The response timestamp

### Indices

Index	Columns
*ResponseMatrix1	QuestionId, RespondentId, ColumnPosition, RowPosition
ResponseMatrix2	RespondentId, QuestionId

(\* = Unique index)

### Foreign keys

Foreign key	Child	Parent
OPS_FK51	QuestionId	OPS_Question.QuestionId
OPS_FK52	RespondentId	OPS_Respondent.RespondentId
OPS_FK55	OPS_ResponseMatrixNum.ResponseMatrixId	ResponseMatrixId
OPS_FK58	OPS_ResponseMatrixText.ResponseMatrixId	ResponseMatrixId

## OPS\_ResponseMatrixText

Response to a matrix cell of type text and dropdown.

## Columns

Column	Data type	Allow NULLs	Key	Notes
TextValue	VARCHAR(255)	Null		Text response or value of the selected dropdown item
ResponseMatrixId	BIGINT	Not null	FK	References OPS_ResponseMatrix table
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table

## Indices

Index	Columns
*ResponseMatrixTe1	ResponseMatrixId
ResponseMatrixTe2	ResponseMatrixId, TextValue
ResponseMatrixTe3	QuestionId
ResponseMatrixTe4	RespondentId

(\* = Unique index)

## Foreign keys

Foreign key	Child	Parent
OPS_FK56	QuestionId	OPS_Question.QuestionId
OPS_FK57	RespondentId	OPS_Respondent.RespondentId
OPS_FK58	ResponseMatrixId	OPS_ResponseMatrix.ResponseMatrixId

## OPS\_ResponseMatrixNum

Response to a matrix cell with numeric field.

## Columns

Column	Data type	Allow NULLs	Key	Notes
LongValue	BIGINT	Null		Response of type INTEGER/long
DecValue	DOUBLE	Null		Response of type decimal
ResponseMatrixId	BIGINT	Not null	FK	References OPS_ResponseMatrix table
QuestionId	BIGINT	Not null	FK	References OPS_Question table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table

## Indices

Index	Columns
*ResponseMatrixNu1	ResponseMatrixId
ResponseMatrixNu2	QuestionId
ResponseMatrixNu3	RespondentId

(\* = Unique index)

### Foreign keys

Foreign key	Child	Parent
OPS_FK53	QuestionId	OPS_Question.QuestionId
OPS_FK54	RespondentId	OPS_Respondent.RespondentId
OPS_FK55	ResponseMatrixId	OPS_ResponseMatrix.ResponseMatrixId

## OPS\_HeaderFooter

Stores reusable headers/footers (bank).

### Columns

Column	Data type	Allow NULLs	Key	Notes
HeaderFooterId	BIGINT	Not null	PK	Unique id
HeaderFooterName	VARCHAR(20)	Null		Header/footer name
HeaderFooterText	TEXT	Null		Header/footer content
UserId	BIGINT	Null		Id of the user who created the resource
Type	INTEGER	Not null		Resource type: <ul style="list-style-type: none"><li>1 - header</li><li>2 - footer</li></ul> Resource type:

Stores reusable headers/footers (bank).

## OPS\_InvitationList

Stores reusable list of invitees.

### Columns

Column	Data type	Allow NULLs	Key	Notes
InvitationListId	BIGINT	Not null	PK	Unique id
InvitationListName	VARCHAR(255)	Not null		Name of the invitation list
SortOn	INTEGER	Null		Alphabetic sort value:



Column	Data type	Allow NULLs	Key	Notes
				<ul style="list-style-type: none"><li>0 - off</li><li>1 - on</li></ul>

### Foreign keys

Foreign key	Child	Parent
OPS_FK17	OPS_InvitationListItem.InvitationListId	InvitationListId

## OPS\_InvitationListItem

One record for one invitee in reusable invitation list.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ItemId	BIGINT	Not Null	PK	Unique id
Email	VARCHAR(100)	Not null		Email of invitee
InviteeName	VARCHAR(100)	Null		Invitee name
SortValue	INTEGER	Null		Sort value, 0 if alphabetic sort is on.
InvitationListId	BIGINT	Null	FK	References OPS_InvitationList table

One record for one invitee in reusable invitation list.

### Indices

Index	Columns
InvitationListIt1	InvitationListId

One record for one invitee in reusable invitation list.

### Foreign keys

Foreign key	Child	Parent
OPS_FK17	InvitationListId	OPS_InvitationList.InvitationListId
OPS_FK118	OPS_InvitationListItemAttr.ItemId	ItemId

One record for one invitee in reusable invitation list.

## OPS\_InvitationListItemAttr

One record for one invitee attribute in the reusable invitee list.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ItemAttributeId	BIGINT	Not Null	PK	Unique id
AttributeName	VARCHAR(50)	Not null		Attribute name
StringValue	VARCHAR(255)	Null		Attribute value
ItemId	BIGINT	Not Null	FK	References OPS_InvitationListItem table
InvitationListId	BIGINT	Not Null	FK	References OPS_InvitationList table

## Indices

Index	Columns
InvListItemAttr	ItemId

## Foreign keys

Foreign key	Child	Parent
OPS_FK118	ItemId	OPS_InvitationListItemAttr.ItemId

## OPS\_Report

Defines survey report.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ReportId	BIGINT	Not null	PK	Unique id
SurveyId	BIGINT	Not null	FK	References OPS_Survey
ReportName	VARCHAR(100)	Null		Report name used in the administration module
Heading	VARCHAR(255)	Null		Displayed report heading
Description	TEXT	Null		Description of the report
Header	TEXT	Null		Report header
Footer	TEXT	Null		Report footer
Font	VARCHAR(100)	Null		Report text font family
HeadingFont	VARCHAR(100)	Null		Report heading font family
FontSize	INTEGER	Null		Report text font size
HeadingFontSize	INTEGER	Null		Report heading font size
BgColour	VARCHAR(20)	Null		Report background colour
FontColour	VARCHAR(20)	Null		Report text font colour
HeadingFontColour	VARCHAR(20)	Null		Report heading font colour

Column	Data type	Allow NULLs	Key	Notes
Css	VARCHAR(100)	Null		Report css
RecalculatingPeriod	BIGINT	Not null		Period between report recalculation in minutes. Used if CacheOn is true.
CacheOn	VARCHAR(5)	Null		Cache report: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Cache report:
AvailableForResp	VARCHAR(5)	Null		True if respondents can access the report. Values: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> Values:
IncludeIncompl	VARCHAR(5)	Null		True if the report will include incomplete responses. Values: <ul style="list-style-type: none"> <li>true</li> <li>false</li> </ul> responses. Values:
CreatedBy	BIGINT	Null		Id of the user who created the report.
CreatedDate	BIGINT	Null		Date when the report was created.
LastModifiedDate	BIGINT	Null		Date when the report was modified last time.
LastFilledDate	BIGINT	Null		Date when the report was filled last time
ContentType	INTEGER	Null		Report type: <ul style="list-style-type: none"> <li>0 - main report</li> <li>1 - drilldown report</li> </ul> Report type:
Status	INTEGER	Null		Report status <ul style="list-style-type: none"> <li>0 - active report, applies both for main and drilldowns</li> <li>1 - scheduled for deletion. For now applies only to drilldowns</li> </ul> Report status

## Indices

Index	Columns
Report_SurveyId1	SurveyId

## Foreign keys

Foreign key	Child	Parent
OPS_FK34	SurveyId	OPS_Survey.SurveyId
OPS_FK35	OPS_ReportElement.ReportId	ReportId
OPS_FK81	OPS_ReportFilter.ReportId	ReportId
OPS_FK84	OPS_ReportRespondent.ReportId	ReportId
OPS_FK88	OPS_ReportAttribute.ReportId	ReportId
OPS_FK90	OPS_ReportElementAttribute.ReportId	ReportId
OPS_FK99	OPS_ReportDrilldown.ReportId	ReportId
OPS_FK100	OPS_ReportQuestionLabel.ReportId	ReportId
OPS_FK101	OPS_ReportQuestionInterval.ReportId	ReportId

## OPS\_ReportAttribute

One record represents one report attribute.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ReportAttributeId	BIGINT	Not null	PK	Unique id
AttributeName	VARCHAR(30)	Not null		Short name of the user attribute
StringValue	VARCHAR(255)	Null		String value of the attribute
LongValue	BIGINT	Null		Long value of the attribute
BigTextValue	TEXT	Null		Big text value of the attribute
FloatValue	DOUBLE	Null		Double value of the attribute
ReportId	BIGINT	Not null	FK	References OPS_Report table

### Indices

Index	Columns
ReportAttr1	ReportId

### Foreign keys

Foreign key	Child	Parent
OPS_FK88	ReportId	OPS_Report.ReportId

## OPS\_ReportElement

## Columns

Column	Data type	Allow NULLs	Key	Notes
ReportElementId	BIGINT	Not null	PK	Unique id
ReportId	BIGINT	Not null	FK	References OPS_Report table
SortValue	INTEGER	Not null		Position of the report element. Starts at 0.
ElementName	VARCHAR(255)	Not null		Report element name used in the administration module.
Heading	VARCHAR(255)	Null		Report element heading, displayed in the report.
Description	TEXT	Null		Report element description
NumericPrecision	INTEGER	Null		Number of digits after comma in report values.
ReportTypes	VARCHAR(255)	Null		Report types, separated by comma and enclosed in braces. Example: {1, 2, 10} <ul style="list-style-type: none"> <li>• 1 - summary report</li> <li>• 2 - detailed statistics</li> <li>• 3 - cross tabulation</li> <li>• 4 - free text comments</li> <li>• 5 - comments in multiple choice 'other'-field</li> <li>• 6 - comments in matrix cells (cells of type text)</li> <li>• 7 - comments in essay fields of type text</li> <li>• 8 - horizontal bar chart</li> <li>• 9 - vertical bar chart</li> <li>• 10 - pie chart</li> </ul> enclosed in braces. Example: {1, 2, 10}
ShowNonSelected Items	VARCHAR(5)	Null		True is non selected options should be displayed in the report element. True/false

## Indices

Index	Columns
ReportElement_Re1	ReportId

## Foreign keys

Foreign key	Child	Parent
OPS_FK35	ReportId	OPS_Report.ReportId
OPS_FK36	OPS_ReportElementQuestionNo.ReportElementId	ReportElementId
OPS_FK89	OPS_ReportElementAttribute.ReportElementId	ReportElementId

## OPS\_ReportElementAttribute

One record represents one report element attribute.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ReportElementAttributeId	BIGINT	Not null	PK	Unique id
AttributeName	VARCHAR(30)	Not null		Short name of the user attribute
StringValue	VARCHAR(255)	Null		String value of the attribute
LongValue	BIGINT	Null		Long value of the attribute
BigTextValue	TEXT	Null		Big text value of the attribute
FloatValue	DOUBLE	Null		Double value of the attribute
ReportElementId	BIGINT	Not null	FK	References OPS_ReportElement table
ReportId	BIGINT	Not null	FK	References OPS_Report table

### Indices

Index	Columns
ReportElementAttr1	ReportId
ReportElementAttr2	ReportElementId

### Foreign keys

Foreign key	Child	Parent
OPS_FK89	ReportElementId	OPS_ReportElement.ReportElementId
OPS_FK90	ReportId	OPS_Report.ReportId

## OPS\_ReportElementQuestionNo

Number of the questions included in a report element.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ReportId	BIGINT	Not null		Report id
ReportElementId	BIGINT	Not null	FK	References OPS_ReportElement table
QuestionNumber	INTEGER	Not null		Question number

## Indices

Index	Columns
ReportElementQue1	ReportId
ReportElementQue2	ReportElementId
ReportElementQue3	ReportId, ReportElementId, QuestionNumber

## Foreign keys

Foreign key	Child	Parent
OPS_FK36	ReportElementId	OPS_ReportElement.ReportElementId

## OPS\_ReportQuestionInterval

One record represents intervals for one question in a report.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ReportQuestionIntervalId	BIGINT	Not null	PK	Unique id
Intervals	TEXT	Not null		Comma separated intervals, enclosed in [ ]
NumericType	INTEGER	Not null		Numeric type of the intervals <ul style="list-style-type: none"><li>0 - integer</li><li>1 - decimal</li></ul> Numeric type of the intervals
TargetType	INTEGER	Not null		Target id for numeric intervals: <ul style="list-style-type: none"><li>1 - numeric question</li><li>2 - numeric in-text element</li><li>3 - numeric matrix cell</li></ul> Target id for numeric intervals:
MappingId	VARCHAR(255)	Not null		Id used for mapping intervals to questions
QuestionId	BIGINT	Not null		Id of the corresponding question
ReportId	BIGINT	Not null	FK	References OPS_Report table

## Indices

Index	Columns
QuestionInterval1	QuestionId, ReportId
QuestionInterval2	TargetType, MappingId, QuestionId, ReportId

## Foreign keys

Foreign key	Child	Parent
OPS_FK101	ReportId	OPS_Report.ReportId

## OPS\_ReportQuestionLabel

One record represents intervals for one question in a report.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ReportQuestionLabelId	BIGINT	Not null	PK	Unique id
Label	VARCHAR(255)	Null		Question label
TargetType	INTEGER	Not null		Target id for numeric intervals: <ul style="list-style-type: none"><li>• 1 - question</li><li>• 2 - in-text element</li><li>• 3 - matrix cell</li><li>• 4 - matrix group</li></ul> Target id for numeric intervals:
MappingId	VARCHAR(255)	Not null		Id used for mapping intervals to questions
QuestionId	BIGINT	Not null		Id of the corresponding question
ReportId	BIGINT	Not null	FK	References OPS_Report table

## Indices

Index	Columns
QuestionLabel1	QuestionId, ReportId
QuestionLabel2	TargetType, MappingId, QuestionId, ReportId

## Foreign keys

Foreign key	Child	Parent
OPS_FK100	ReportId	OPS_Report.ReportId

## OPS\_QuestionCondition

General condition for a question. Currently used only for report conditions.

## Columns



Column	Data type	Allow NULLs	Key	Notes
QuestionConditionId	BIGINT	Not null	PK	Unique id
ConditionName	VARCHAR(100)	Null		Name of the question condition
ConditionType	INTEGER	Null		Condition type: <ul style="list-style-type: none"> <li>0 - type 'at least one', some of the values selected</li> <li>1 - type ", of the values selected</li> <li>2 - type 'all', all values are selected</li> </ul> Condition type:
FilterArray	VARCHAR	Null		Which question to filter out is condition is true. (not is use)
QuestionId	BIGINT	Not null	FK	References OPS_Question table

## Indices

Index	Columns
QuestionCond1	QuestionId

## Foreign keys

Foreign key	Child	Parent
OPS_FK79	QuestionId	OPS_Question.QuestionId
OPS_FK80	OPS_QuestionConditionOption.QuestionConditionId	QuestionConditionId
OPS_FK82	OPS_ReportFilter_QuestionCond.QuestionConditionId	QuestionConditionId

## OPS\_QuestionConditionOption

One option in question condition.

## Columns

Column	Data type	Allow NULLs	Key	Notes
QuestionConditionOptionId	BIGINT	Not null	PK	Unique id
Position1	INTEGER	Null		Option position 1. Can be option index in a multiple question, or essay field index in essay, or column position of the matrix cell.
Position2	INTEGER	Null		Option position 1. Row of the cell in matrix question.
TagFieldPosition	INTEGER	Null		Position of the essay field.
TextValue	VARCHAR	Null		The comparing text value. Example: a word

Column	Data type	Allow NULLs	Key	Notes
				which response value must contain.
LongValue1	BIGINT	Null		The comparing long value 1. Example: maximum value for numeric or start value for valid range.
LongValue2	BIGINT	Null		The comparing long value 2. Example: End value for valid range.
DoubleValue1	DOUBLE	Null		The comparing decimal value 1. Example: maximum value for numeric or start value for valid range.
DoubleValue2	DOUBLE	Null		The comparing decimal value 2. Example: End value for valid range.
QuestionConditionId	BIGINT	Not null	FK	References OPS_QuestionCondition table
QuestionId	BIGINT	Not null		Question id

## Indices

Index	Columns
QuestionCondOp1	QuestionConditionId
QuestionCondOp2	QuestionId

## Foreign keys

Foreign key	Child	Parent
OPS_FK80	QuestionConditionId	OPS_QuestionCondition.QuestionConditionId

## OPS\_ReportFilter

Defines a report filter.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ReportFilterId	BIGINT	Not null	PK	Unique id
ReportFilterName	VARCHAR(100)	Not null		Report filter name, used in the administration module
ReportFilterType	INTEGER	Not null		Report filter type: <ul style="list-style-type: none"> <li>0 - include respondents meeting conditions</li> <li>1 - exclude respondents meeting conditions</li> </ul> Report filter type:
StartDate	BIGINT	Null		Date condition, applied to respondent entry date

Column	Data type	Allow NULLs	Key	Notes
StopDate	BIGINT	Null		Date condition, applied to respondent complete date
CompletedStatus	INTEGER	Null		Condition on respondent completed status (not in use)
InvitationStatus	INTEGER	Null		Condition on respondent invitation status (not in use)
ResponseLanguages	VARCHAR(255)	Null		Response languages filter - comma separated language codes
LastUpdated	BIGINT	Null		Timestamp when the filter was last updated
ReportId	BIGINT	Not null	FK	References OPS_Report table

## Indices

Index	Columns
ReportFilter1	ReportId

## Foreign keys

Foreign key	Child	Parent
OPS_FK81	ReportId	OPS_Report.ReportId
OPS_FK83	OPS_ReportFilter_QuestionCond.ReportFilterId	ReportFilterId

## OPS\_ReportFilter\_QuestionCond

One record maps OPS\_ReportFilter og OPS\_QuestionCondition. One report filter can contains many question conditions.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ReportFilterId	BIGINT	Not null	FK	References OPS_ReportFilter table
QuestionConditionId	BIGINT	Not null	FK	References OPS_QuestionCondition table

## Indices

Index	Columns
ReportFilQCond1	ReportFilterId
ReportFilQCond2	ReportFilterId, QuestionConditionId

## Foreign keys

Foreign key	Child	Parent
OPS_FK82	QuestionConditionId	OPS_QuestionCondition.QuestionCo nditionId
OPS_FK83	ReportFilterId	OPS_ReportFilter.ReportFilterId

## OPS\_ReportDrilldown

One record represents one report drilldown.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ReportDrillDownId	BIGINT	Not null	PK	Unique id
ReportDrillDownKey	VARCHAR(255)	Not null		Key with drilldown info
ReportId	BIGINT	Not null	FK	References OPS_Report table

### Indices

Index	Columns
Drilldown1	ReportDrillDownKey, ReportId

## Foreign keys

Foreign key	Child	Parent
OPS_FK99	ReportId	OPS_Report.ReportId

## OPS\_ReportRespondent

One record maps respondent to a report. One respondent can be included in many reports and one report can contain many respondents.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ReportId	BIGINT	Not null	FK	References OPS_Report table
RespondentId	BIGINT	Not null	FK	References OPS_Respondent table

many respondents.

## Indices

Index	Columns
ReportRespondent1	ReportId
ReportRespondent2	RespondentId

## Foreign keys

Foreign key	Child	Parent
OPS_FK84	ReportId	OPS_Report.ReportId
OPS_FK85	RespondentId	OPS_Respondent.RespondentId

## OPS\_ReportFile

One record represents one generated report file.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ReportFileId	BIGINT	Not null	PK	Unique id
ReportFileName	VARCHAR(255)	Not null		Report file name
Timestamp	BIGINT	Null		Time when the report file was generated (milliseconds)
SystemVersion	VARCHAR(100)	Not null		System version for used for report generation
ReportId	BIGINT	Not null		Report id
IpAddress	VARCHAR(100)	Not null		Ip address of the system
FileType	VARCHAR(30)	Not null		File type (zip/pdf/html)

## Indices

Index	Columns
ReportFile1	ReportId
ReportFile2	ReportId, FileType

## OPS\_ReportPortal

One record maps for every report portal.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ReportPortalId	BIGINT	Not null	PK	Unique id
Name	VARCHAR(255)	Not null		Report portal name
CreatedDate	BIGINT	Not null		Create date in milliseconds
CreatedBy	BIGINT	Not null		Id of the user who created the report portal
ModifiedDate	BIGINT	Not null		Last modified date in milliseconds
ModifiedBy	BIGINT	Not null		Id of the last user who modified the report portal

## Foreign keys

Foreign key	Child	Parent
OPS_FK116	ReportPortalItem.ReportPortalId	ReportPortalId
OPS_FK117	OPS_ReportPortalAttribute.ReportPortalId	ReportPortalId

## OPS\_ReportPortalAttribute

One record represents one report portal attribute.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ReportPortalAttributeId	BIGINT	Not null	PK	Unique id
AttributeName	VARCHAR(255)	Not null		Name of the attribute
StringValue	VARCHAR(255)	Null		String attribute value
LongValue	BIGINT	Null		Long attribute value
BigTextValue	TEXT	Null		Big text attribute value
FloatValue	DOUBLE	Null		Double value of the attribute
ReportPortalId	BIGINT	Not null	FK	References OPS_ReportPortal table

## Indices

Index	Columns
ReportPortalAtt1	AttributeName, ReportPortalId

## Foreign keys

Foreign key	Child	Parent
OPS_FK117	ReportPortalId	OPS_ReportPortal.ReportPortalId

## OPS\_ReportPortalItem

One record represents one report portal item.

### Columns

Column	Data type	Allow NULLs	Key	Notes
ReportPortalItemId	BIGINT	Not null	PK	Unique id
ItemType	INTEGER	Not null		Type of the report portal item: <ul style="list-style-type: none"><li>• 0 - text item</li><li>• 1 - link item</li></ul> Type of the report portal item:
ItemIndex	INTEGER	Not null		Position of the item
ZoneNo	INTEGER	Not null		Zone number where the item is located
ItemText	TEXT	Null		Item text (text for items of type TEXT and link label for items of type LINK)
LinkIconLocation	VARCHAR(255)	Null		Icon location for the item of type link
LinkOnClick	VARCHAR(255)	Null		JavaScript to execute on link click. Not yet in use.
MouseOverTitle	VARCHAR(255)	Null		Title to show when mouse is over the link
ImageURL	VARCHAR(255)	Null		Url of the image
LinkURL	VARCHAR(255)	Null		Link url
ReportPortalId	VARCHAR(255)	Not null	FK	References OPS_ReportPortal table
ReportId	BIGINT	Null		Id of the report to show if any

### Indices

Index	Columns
ReportPortalItem1	ItemIndex, ReportPortalId

### Foreign keys

Foreign key	Child	Parent
OPS_FK116	ReportPortalId	OPS_ReportPortal.ReportPortalId

## OPS\_Panel

One record represents one panel (panel management)

### Columns

Column	Data type	Allow NULLs	Key	Notes
PanelId	BIGINT	Not null	PK	Unique id
PanelName	VARCHAR(255)	Not null		Name of the panel
CreatedDate	BIGINT	Not null		Date the panel was created in milliseconds
LastUpdatedDate	BIGINT	Not null		Date the panel was last updated
SignUpValid	VARCHAR(5)	Not null		Indicated whether sign-up survey is valid (true/false)
PanelStatus	INTEGER	Not null		Status of the panel
UserId	BIGINT	Not null		User id who created the panel.

## Indices

Index	Columns
Panel1	UserId

## Foreign keys

Foreign key	Child	Parent
OPS_FK104	OPS_PanelSignUpSurvey.PanelId	PanelId
OPS_FK106	OPS_PanelCategory .PanelId	PanelId
OPS_FK109	OPS_Panelist.PanelId	PanelId
OPS_FK112	OPS_PanelistUnverified.PanelId	PanelId
OPS_FK113	OPS_SampleDefinition.PanelId	PanelId

## OPS\_PanelAttribute

One record represents one panel attribute (panel question)

## Columns

Column	Data type	Allow NULLs	Key	Notes
PanelAttributeId	BIGINT	Not null	PK	Unique id
PanelAttributeName	VARCHAR(255)	Not null		Attribute name (used in admin module)
PanelAttributeLabel	VARCHAR(255)	Not null		Attribute label (used in panel module, visible to the panelists)
PanelAttributeType	INTEGER	Not null		Attribute type: <ul style="list-style-type: none"><li>0 - short text</li><li>1 - long text</li><li>2 - selection</li><li>3 - checkbox</li><li>4 - date</li><li>5 - INTEGER</li><li>6 - decimal</li></ul>
			68	Attribute type:



Column	Data type	Allow NULLs	Key	Notes
PanelAttributePosition	INTEGER	Not null		Sequential position of the attribute
SelectionMode	INTEGER	Null		Type of the selection, applies if PanelAttributeType is Selection: <ul style="list-style-type: none"> <li>0 - single selection</li> <li>1 - multiple selection</li> </ul> PanelAttributeType is Selection:
SelectionType	INTEGER	Null		Selection type <ul style="list-style-type: none"> <li>0 - dropdown list</li> <li>1 - radio buttons/checkboxes</li> </ul> Selection type
DatePattern	VARCHAR(255)	Null		Date pattern for attribute of type Date
PanelCategoryId	BIGINT	Not null	FK	References OPS_PanelCategory

## Indices

Index	Columns
PanelAttribute1	PanelAttributePosition, PanelCategoryId

## Foreign keys

Foreign key	Child	Parent
OPS_FK108	OPS_PanelAttributeItem.PanelAttributeId	PanelAttributeId
OPS_FK107	PanelCategoryId	OPS_PanelCategory.PanelCategoryId

## OPS\_PanelAttributeItem

One record represents one panel attribute item (used for selection items)

## Columns

Column	Data type	Allow NULLs	Key	Notes
PanelAttributeItemId	BIGINT	Not null	PK	Unique id
PanelAttributeItemName	VARCHAR(255)	Not null		Panel attribute item name
PanelAttributeItemValue	VARCHAR(255)	Not null		Attribute value
PanelAttributeItemPosition	INTEGER	Null		Position of the item
PanelAttributeId	BIGINT	Not null	FK	References OPS_PanelAttribute

## Indices

Index	Columns
PanelAttrItem1	PanelAttributeItemPosition, PanelAttributeId

## Foreign keys

Foreign key	Child	Parent
OPS_FK108	PanelAttributeId	OPS_PanelAttribute.PanelAttributeId

## OPS\_PanelCategory

One record represents one panel category

## Columns

Column	Data type	Allow NULLs	Key	Notes
PanelCategoryId	BIGINT	Not null	PK	Unique id
PanelCategoryName	VARCHAR(255)	Not null		Name of the panel category
PanelCategoryPosition	INTEGER	Not null		Sequential position
PanelId	BIGINT	Not null	FK	References OPS_Panel

## Indices

Index	Columns
PanelCategory1	PanelCategoryPosition, PanelId

## Foreign keys

Foreign key	Child	Parent
OPS_FK107	OPS_PanelAttribute.PanelCategoryId	PanelCategoryId
OPS_FK106	PanelId	OPS_Panel.PanelId

## OPS\_PanelSignUpSurvey

One record represents mapping between panel and sign-up survey.

## Columns

Column	Data type	Allow NULLs	Key	Notes
PanelId	BIGINT	Not null	FK	References OPS_Panel
SurveyId	BIGINT	Not null	FK	References OPS_Survey

## Indices

Index	Columns
PanelSignUpSurvey1	PanelId, SurveyId

## Foreign keys

Foreign key	Child	Parent
OPS_FK104	PanelId	OPS_Panel.PanelId
OPS_FK105	SurveyId	OPS_Survey.SurveyId

## OPS\_Panelist

One record represents one panelist

## Columns

Column	Data type	Allow NULLs	Key	Notes
PanelistId	BIGINT	Not null	PK	Unique id
PanelistName	VARCHAR(255)	Not null		Panelist name
PanelistEmail	VARCHAR(255)	Not null		Panelist email
Password	VARCHAR(250)	Not null		Password (encrypted)
CreatedDate	BIGINT	Not null		Date the panelist was created (signed up) in milliseconds
LastLoginDate	BIGINT	Null		Date of the last login
LastUpdatedDate	BIGINT	Not null		Date when panelist was updated last time (in milliseconds)
LastRespondedDate	BIGINT	Null		Date when panelist last responded to a survey (in milliseconds)
ProfileTicket	VARCHAR(100)	Null		Ticket to edit own profile
RequestedEmail	VARCHAR(255)	Null		Email requested for change (stored here until verified)
RequestedEmailKey	VARCHAR(255)	Null		Key for email change request
PanelistStatus	INTEGER	Null		Status of the panelist <ul style="list-style-type: none"><li>0 = subscribed</li><li>1 = unsubscribed</li></ul> Status of the panelist

Column	Data type	Allow NULLs	Key	Notes
PanelId	BIGINT	Not null	FK	References OPS_Panel

## Indices

Index	Columns
Panelist1	PanelistEmail, PanelistId

## Foreign keys

Foreign key	Child	Parent
OPS_FK109	PanelId	OPS_Panel.PanelId
OPS_FK110	OPS_PanelistAttribute.PanelistId	PanelistId
OPS_FK111	OPS_PanelistHistory.PanelistId	PanelistId

## OPS\_PanelistAttribute

One record represents one panelist attribute (response to panel attribute)

## Columns

Column	Data type	Allow NULLs	Key	Notes
PanelistAttributeId	BIGINT	Not null	PK	Unique id
PanelistAttribute Value	VARCHAR(255)	Null		String value of the attribute (response to the panel attribute)
PanelistAttribute BigValue	text	Null		Text value of the attribute (response to the panel attribute)
PanelistAttributeIntValue	BIGINT	Null		INTEGER value of the attribute (response to the panel attribute)
PanelistAttribute DecValue	double	Null		Decimal value of the attribute (response to the panel attribute)
PanelistId	BIGINT	Not null	FK	References OPS_Panelist table
PanelAttributeId	BIGINT	Not null		Id of the panel attribute

## Indices

Index	Columns
TODO	TODO

## Foreign keys

Foreign key	Child	Parent
OPS_FK110	PanelistId	OPS_Panelist.PanelistId

## OPS\_PanelistHistory

One record represents one panelist history item.

### Columns

Column	Data type	Allow NULLs	Key	Notes
PanelistHistoryId	BIGINT	Not null	PK	Unique id
PanelistId	BIGINT	Not null	FK	References OPS_Panelist table
EntryDate	BIGINT	Not null		History item date in milliseconds
EntryType	INTEGER	Not null		Type of the history item: <ul style="list-style-type: none"><li>• 0 = invited to a survey</li><li>• 1 = reminder sent</li><li>• 1 = reminder sent</li><li>• 2 = panelist has started a survey</li><li>• 3 = panelist has completed a survey</li><li>• 4 = panelist has saved a survey to come back later</li><li>• 5 = panelist has left a survey without answering</li></ul> Type of the history item:
SurveyId	BIGINT	Null		Survey id that panelist is invited/responded to
SurveyName	VARCHAR(255)	Not null		Survey name that panelist is invited/responded to
InviteeId	BIGINT	Null		Invitee id used in invitation
RespondentId	BIGINT	Null		Respondent id - if panelist started/completed/saved the survey
PointsAwarded	INTEGER	Null		Points awarded. NOT YET IN USE.

### Foreign keys

Foreign key	Child	Parent
OPS_FK111	PanelistId	OPS_Panelist.PanelistId

## OPS\_PanelUnverified

One record represents panelist who's email is not yet verified.

### Columns

Column	Data type	Allow NULLs	Key	Notes
PanelistUnverifiedId	BIGINT	Not null	PK	Unique id
RegistrationKey	VARCHAR(100)	Not null		Registration key - ticket used in the verification email
PanelistName	VARCHAR(255)	Not null		Panelist name
PanelistEmail	VARCHAR(255)	Not null		Panelist email
PanelistPassword	VARCHAR(255)	Not null		Panelist password, encrypted
RegistrationDate	BIGINT	Not null		Date of the registration in milliseconds.
PanelId	BIGINT	Not null	FK	References OPS_Panel

### Foreign keys

Foreign key	Child	Parent
OPS_FK112	PanelId	OPS_Panel.PanelId

## OPS\_SampleDefinition

One record represents sample definition

### Columns

Column	Data type	Allow NULLs	Key	Notes
SampleDefinitionId	BIGINT	Not null	PK	Unique id
SampleDefinitionName	VARCHAR(255)	Not null		Sample definition name
MaxSampleSize	INTEGER	Not null		The max size of panelists in the sample (0 = unlimited).
SampleType	INTEGER	Not null		Specifies how the sample is drawn from the finite population of panelists: <ul style="list-style-type: none"><li>• 1 = Randomly select the panelists</li><li>• 2 = Select the panelists that least recently have been invited</li><li>• 3 = Select the panelists that least recently have responded</li><li>• 4 = Select the panelists that have been invited least</li><li>• 5 = Select the panelists that have responded least</li></ul> finite population of panelists:
IsValid	VARCHAR(5)	Not null		Indicates whether the sample definition is valid. True/false
PanelistCount	INTEGER	Not null		Number of panelists in the sample definition
CreatedDate	BIGINT	Not null		Date when sample definition was created

Column	Data type	Allow NULLs	Key	Notes
CreatedBy	BIGINT	Not null		User who created the sample definition
UpdatedDate	BIGINT	Null		Date when sample definition was last updated.
UpdatedBy	BIGINT	Null		Id of the last user who updated the sample definition
PanelId	BIGINT	Not null	FK	References OPS_Panel

## Foreign keys

Foreign key	Child	Parent
OPS_FK114	OPS_SampleCondition.SampleDefinitionId	SampleDefinitionId
OPS_FK113	PanelId	OPS_Panel.PanelId

## OPS\_SampeCondition

One record represents one sample condition

## Columns

Column	Data type	Allow NULLs	Key	Notes
SampleConditionId	BIGINT	Not null	PK	unique id
SampleDefinitionId	BIGINT	Not null	FK	References OPS_SampleDefinition table
PanelAttributeId	BIGINT	Not null		Id of the panel attribute
MultipleSelectionType	INTEGER	Not null		Type of multiple selection <ul style="list-style-type: none"> <li>0 = at least one</li> <li>1 = all</li> </ul> Type of multiple selection
SearchType	INTEGER	Not null		Search type for text attributes <ul style="list-style-type: none"> <li>0 = search for text</li> <li>1 = regular expression</li> </ul> Search type for text attributes

## Indices

Index	Columns
SampleCondition1	SampleDefinitionId, PanelAttributeId

## Foreign keys

Foreign key	Child	Parent
OPS_FK115	OPS_SampleConditionValue.SampleConditionId	OPS_SampleConditionValue
OPS_FK114	SampleDefinitionId	OPS_SampleDefinition.SampleDefinitionId

## OPS\_SampeConditionValue

One record represents one sample condition value (selection item value)

## Columns

Column	Data type	Allow NULLs	Key	Notes
SampleConditionValueId	BIGINT	Not null	PK	Unique id
SampleConditionId	BIGINT	Not null	FK	References OPS_SampleCondition table
StringValue	VARCHAR(255)	Null		Condition value

## Foreign keys

Foreign key	Child	Parent
OPS_FK115	SampleConditionId	OPS_SampleCondition.SampleConditionId

## OPS\_ScheduledTask

One record represents one scheduled task.

## Columns

Column	Data type	Allow NULLs	Key	Notes
ScheduledTaskId	BIGINT	Not null	PK	Unique id
TaskName	VARCHAR(50)	Not null		Task name
ClassName	VARCHAR(255)	Null		Name of the class that executes this task
StartDate	BIGINT	Not null		Start date of the task, in milliseconds
Period	BIGINT	Not null		Period between executions, in milliseconds
TaskType	VARCHAR(10)	Null		Task type (not in uses)
Parameters	VARCHAR(255)	Null		Parameters for the task, as string
TotalRuns	INTEGER	Null		Number of executions
RunCounter	INTEGER	Null		Number of current execution



Column	Data type	Allow NULLs	Key	Notes
Status	VARCHAR(50)	Null		Status of the task: <ul style="list-style-type: none"><li>• RUNNING - the task is running</li><li>• PENDING - the task is pending</li><li>• COMPLETED - the task is completed</li><li>• ERROR - error in the task</li><li>• STOPPED - the task is stopped</li></ul> Status of the task:
Executor	VARCHAR(50)	Null		The task executor

## OPS\_FailedEmailMsg

One record represents one failed email.

### Columns

Column	Data type	Allow NULLs	Key	Notes
FailedEmailMsgId	BIGINT	Not null	PK	Unique id
FromName	VARCHAR(100)	Null		Name of the person who sends the email
FromEmail	VARCHAR(100)	Null		Email of the person who sends the email
Subject	VARCHAR(100)	Null		Email subject
Message	TEXT	Null		Content of the email
Type	VARCHAR(100)	Null		Email content type. Values: <ul style="list-style-type: none"><li>• text/html</li><li>• text/plain</li></ul> Email content type. Values:
EntryDate	BIGINT	Null		Entry date

One record represents one failed email.

### Foreign keys

Foreign key	Child	Parent
OPS_FK15	OPS_FailedEmailRecipient.FailedEmailMsgId	FailedEmailMsgId

One record represents one failed email.

## OPS\_FailedEmailRecipient

One record represents one recipient who has not received an email.

### Columns

Column	Data type	Allow NULLs	Key	Notes
FailedEmailRecipientId	BIGINT	Not null	PK	Unique id
FailedEmailMsgId	BIGINT	Not null	FK	References OPS_FailedEmailMsg table
ToName	VARCHAR(100)	Null		Recipient's name
ToEmail	VARCHAR(100)	Null		Recipient's email address
Description	VARCHAR(100)	Null		Why the email failed to be sent

## Indices

Index	Columns
FailedEmailRecip1	FailedEmailMsgId

## Foreign keys

Foreign key	Child	Parent
OPS_FK15	FailedEmailMsgId	OPS_FailedEmailMsg.FailedEmailMsgId

## OPS\_Host

Stores information about the different hosts in the Opinio installation.

## Columns

Column	Data type	Allow NULLs	Key	Notes
HostId	VARCHAR(10)	Not null	PK	Unique id
UniqueHostId	VARCHAR(10)	Null		Extra host id
IPBasedURL	VARCHAR(255)	Null		IP-based system URL
License	VARCHAR(255)	Null		Generated license key
SystemInfoId	BIGINT	Not null		References OPS_SystemInfo.SystemInfoId

Stores information about the different hosts in the Opinio installation.

## Indices

Index	Columns
Host_1	HostId

Stores information about the different hosts in the Opinio installation.

## Foreign keys

Foreign key	Child	Parent
OPS_FK91	OPS_SystemInfo.SystemInfoId	SystemInfoId

## OPS\_UploadedFile

One record represents an uploaded file, with the url to the cluster member where the file is located. Only in use if running Opinio in a clustered environment.

### Columns

Column	Data type	Allow NULLs	Key	Notes
FileURL	VARCHAR(255)	Not null		The file url
UploadedDate	BIGINT	Not null		The date when file was uploaded
UploadedChecksum	BIGINT	Not null		Will decide if the file needs to be uploaded by another cluster member

running Opinio in a clustered environment.

### Indices

Index	Columns
UploadedFile1	UploadedDate

running Opinio in a clustered environment.

## OPS\_UploadedFileCheck

Stores when a cluster member last checked for new uploaded files.

### Columns

Column	Data type	Allow NULLs	Key	Notes
UniqueMemberId	VARCHAR(50)	Not null		Unique cluster member id
CheckDate	BIGINT	Not null		Timestamp when last checked

Stores when a cluster member last checked for new uploaded files.

### Indices

Index	Columns
UploadedFileCheck1	UniqueMemberId

Stores when a cluster member last checked for new uploaded files.

## OPS\_PluginProperty

Stores plugin properties.

## Columns

Column	Data type	Allow NULLs	Key	Notes
PropertyId	BIGINT	Not null	PK	Unique id
PropertyName	VARCHAR(255)	Not null		The property name
PropertyValue	TEXT	Not null		The property value
ClassName	VARCHAR(255)	Not null		Name of the plugin which the property belongs to

## Indices

Index	Columns
PluginProperty1	PropertyId

## OPS\_SequenceId

Stores the last unique ID's to each table.

## Columns

Column	Data type	Allow NULLs	Key	Notes
IdType	BIGINT	Not null		Id type
Id	BIGINT	Not null		Last unique id

Stores the last unique ID's to each table.

## OPS\_ContextGuideItem

One record represents one context guide item

## Columns

Column	Data type	Allow NULLs	Key	Notes
ContextGuideItemId	BIGINT	Not null	PK	Unique id
GuideType	VARCHAR(100)	Not null		Type of the context guide
ItemType	VARCHAR(100)	Not null		Type of the context guide item
ChangeDate	BIGINT	Not null		Date when the item has been changed
UserId	BIGINT	Not null		Id of the user who made the change
ChangeType	VARCHAR(255)	Not null		Type of the change
ChangeKey	VARCHAR(255)	Null		
ChangeId	VARCHAR(255)	Null		
ResourceId	BIGINT	Not null		Id of the resource

## Indices

Index	Columns
ContextGuideItem1	ResourceId

## OPS\_RecentItem

One record represents one recent item.

## Columns

Column	Data type	Allow NULLs	Key	Notes
RecentItemId	BIGINT	Not null	PK	Unique id
UserId	BIGINT	Not null	FK	References OPS_User table
ItemIndex	INTEGER	Not null		Position of the item
IconPath	VARCHAR(255)	Not null		Path to the item icon
ItemText	TEXT	Not null		Item text (text for items of type TEXT and link label for items of type LINK)
Label	VARCHAR(255)	Not null		Item label
Url	VARCHAR(255)	Not null		Item url
ResourceId	BIGINT	Not null		Id of the resource
ResourceType	INTEGER	Not null		Type of the resource

## Indices

Index	Columns
RecentItem1	UserId
RecentItem2	UserId, ItemIndex, ResourceId, ResourceType

## Foreign keys

Foreign key	Child	Parent
OPS_FK98	UserId	OPS_User.UserId