

BR_Schema – Schema Services

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SCOPE

The Schema Definition Tables form a separate reference database. They define the user data and auxiliary database tables that are modified during the use of HRE. This database exists separately within the Server Component. It is used to create the User Project Database. Some of these tables are maintained with a time stamped parallel copy within the Client Component to speed up the composition of some database SQL queries.

These database records are initially loaded by an administrator using a batch bulk add procedure from text files as the base input. This procedure then composes SQL commands to construct this set of database tables.

NOTE: All actions below must be aware of the GUI-Language, the User Data Entry Language and the Report Language.

ACTIONS

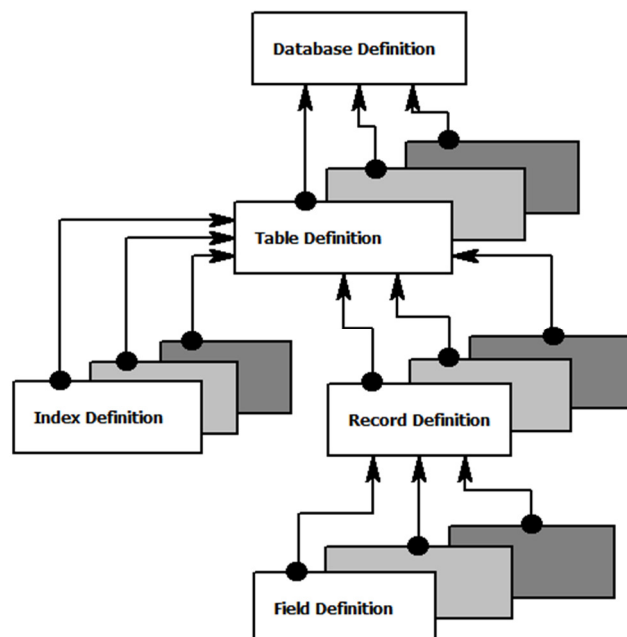
1. On a Load Schema request: (admin only) read an external file to build a new schema or to update the existing schema (uses the **Tools > Admin > Update Schema** GUI to initiate this request)
2. On a New Project request: create an empty database from these schema definition files
3. On an HRE ID request: return the database identity ID, the table ID in a database, the field ID and the instance ID for that record (or as much as possible).

USED BY

1. Any process that needs to classify an HRE_ID

DATA CONTROLLED BY THIS MODULE

There are 5 tables managed by the BR_Schema module:



1. **Records for Database Definition** – One record per Database – use to identify different databases.

SQL FIELD NAME	SQL FIELD TYPE	NOTES
HRE COMMON FIELDS FIRST		
DB_SVN_START	INT	Schema Version Number (SVN) when first used in schema
DB_SVN_LAST	INT	SVN when last used (999,999,999 default)
DB_NAME	VARCHAR(100)	SQL Name of Database (<i>Not Translated</i>)
DB_DESCRP_ID	INT8 NOT NULL	HRE ID for translated Description of Database

The PRIMARY INDEX of this table is the HRE_ID. (Schema Database ID)

2. **Records for Table Definition** – One record per Table.

SQL FIELD NAME	SQL FIELD TYPE	NOTES
HRE COMMON FIELDS FIRST		
DB_SVN_START	INT	Schema Version Number (SVN) when first used in schema
DB_SVN_LAST	INT	SVN when last used (999,999,999 default)
DB_ID	INT8 NOT NULL	HRE_ID of this Parent Database
REC_NAME_ID	INT8	HRE ID for translated Name of Record
REC_VLD_ID	INT8 NOT NULL	HRE Validation ID
REC_DESCRP	INT8	HRE ID for translated Description of Record

The PRIMARY INDEX of this table is the HRE_ID. (Schema Table ID)

3. **Records for Record Definition** – One record per Record Type.

SQL FIELD NAME	SQL FIELD TYPE	NOTES
HRE COMMON FIELDS FIRST		
DB_SVN_START	INT	Schema Version Number (SVN) when first used in schema
DB_SVN_LAST	INT	SVN when last used (999,999,999 default)
DB_ID	INT8 NOT NULL	HRE_ID of this Parent Database
REC_NAME_ID	INT8	HRE ID for translated Name of Record
REC_VLD_ID	INT8 NOT NULL	HRE Validation ID
REC_DESCRP	INT8	HRE ID for translated Description of Record

The PRIMARY INDEX of this table is the HRE_ID. (Schema Record ID)

4. **Records for Field Definitions**– One record per Field in its Parent Record.

SQL FIELD NAME	SQL FIELD TYPE	NOTES
HRE COMMON FIELDS FIRST		
DB_SVN_START	INT	Schema Version Number (SVN) when first used in schema
DB_SVN_LAST	INT	SVN when last used (999,999,999 default)
DB_ID	INT8 NOT NULL	HRE_ID of this Parent Database
REC_ID	INT8 NOT NULL	HRE_ID of this Parent Record
FLD_DESCRP	INT8	HRE ID for translated Description of Field
FLD_SQL_NAME	VARCHAR(30)	SQL Name of Field (<i>Not Translated</i>)
FLD_SQL_TYPE	VARCHAR(30)	SQL Field Type and qualifier (e.g. "INT8 NOT NULL") (<i>Not Translated</i>)
HRE_ENCODING_ID	INT8 NOT NULL	HRE_ID of this Field's HRE Encoding Type

The PRIMARY INDEX of this table is the HRE_ID. (Schema Field ID)

5. **Records for Definition of Indexing** – One record per Database Table Indexing.

SQL FIELD NAME	SQL FIELD TYPE	NOTES
HRE COMMON FIELDS FIRST		
DB_SVN_START	INT	Schema Version Number (SVN) when first used in schema
DB_SVN_LAST	INT	SVN when last used (999,999,999 default)
DB_ID	INT8 NOT NULL	HRE_ID of this Parent Database
IDX_NAME	STRING VARCHAR(30)	SQL Index Name (<i>Not Translated</i>)
IDX_SQL	STRING VARCHAR(200)	SQL Index ON Clause (e.g. "USER(USER_ID)")
IDX_DESCN_ID	INT8	HRE ID for translated Description of Index

The PRIMARY INDEX of this table is the HRE_ID. (Schema Index ID)

REQUIRED SERVICES

1. BR_EntityLink
2. BR_UserTranslation
3. BR_FieldTranslation.

WARNING CONDITIONS

1. Need details of the condition that raised the warning, example message and possible next steps.

ERROR CONDITIONS

1. Need to record the condition that raised the error, example message and possible next steps.