SchemaShovelWeb

The SchemaShovelWeb database is a MySQL database, for the SchemaShovelWeb application. It is designed to store data that describes the structure of databases.

Tables

database:

This holds information on the different database's that have been recorded in the application.

- **id (INT – PK)** – This is the primary key of the table
- **name (VARCHAR(45))** – This is the name of the database record

schema:

This holds information on the different database schemas that are contained within the recorded databases.

- **id (INT – PK)** – This is the primary key of the table
- **databaseID (INT – FK to `database`)** – This links the schema to its parent database, in a many-to-one relationship
- **name (VARCHAR(45))** – This is the name of the schema
- **description (VARCHAR(2000))** – This is a description of the schema

table:

This holds information on the different database tables that are contained within the recorded schemas.

- **id (INT – PK)** – This is the primary key of the `table` table
- **schemaID (INT – FK to `schema`)** – This links the table record to its parent schema, in a many-to-one relationship
- **name (VARCHAR(45))** – This is the name of the recorded table
- **description (VARCHAR(2000))** – This is a description of the recorded table

column:

This holds information on the different database columns that are contained within the recorded databases.

- **id (INT – PK)** – This is the primary key of the table
- **tableID (INT – FK to `table`)** – This links the column to its parent table, in a many-to-one relationship
- **name (VARCHAR(45))** – This is the name of the column
- **description (VARCHAR(2000))** – This is a description of the column
- **foreign_key_to_table_id (INT – FK to `table`)** – If the recorded column had a foreign key constraint, this is represented here by a link to the `table` record that this column had the constraint to.

Stored Procedures

spDeleteDatabaseRecordAndRelations:

Inputs:

- **databaseID (LONG)** – The ID of the record to delete in the `database` table

This procedure will delete the requested record in the `database` table, but it will also delete the entire chain of related records (schema/table/column). This de-couples the deletion process from the foreign key constraints, as the original version of this SP just deleted the `database` record, and allowed the constraints to deal with deleting the related records.

Originally, this was just done by the application. However, later decided to let the database be in control of how this process is implemented.