

# Java Based Standalone Application for Script Generation

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**Abstract:** *This standalone application developed in java technology framework to build queries like select, alter, update, delete and triggers etc. This queries are built for oracle, PostgreSQL and MySQL databases. Databases are used in the all applications, which are implemented in the different sectors and areas like banking, insurances, educational etc. Now days technologies are boon, also it really makes complicated and time consuming process to learn new tools and technologies so this application is helping to developers and companies to automate the process to build the queries. This is simple and easy to learn standalone GUI application for new resources also it simplified the problem to learn new technology because now days' technology upgrading rapidly.*

**Keywords:** Standalone, ORACLE, GUI, JAVA-Swing

## I. INTRODUCTION

No matter the size of your company, your data leads the industry. Data is available in different formats depending on various factors such as duration, importance and use of the data. Data that is often received in an unordered format can be transformed into a table if it is regularly sorted. Data loss is vital to your business and can waste a huge amount of time and money. Therefore, structuring the data is an important task, regardless of the amount of data. Databases provide a great solution to the problem of data classification and grouping. Databases such as MySQL and PostgreSQL work with query-based programming, where queries are answered with results from the database. A common problem encountered with such mannerisms arises when creating a table with multiple tuples. Such problems can be overcome by providing a guided table creation interface such as MySQL WorkBench.

Table creation has been simplified, but converting from one database to another is difficult for most front-end developers who keep experimenting with different types of databases. In each database, the tables must be created from scratch. This becomes a major drawback as the number of tuples in the table grows. As a solution to this problem, I developed an application that, like Workbench, can generate query scripts in different databases without breaking table properties. These generate scripts are text files that can be run at the command prompt of various databases to quickly generate tables. The text file is automatically saved in the directory ahead of time. Contains different versions of the same table, selected by the user and indexed on time and date. Various versions of tables can be viewed in a directory and referenced for future table generation.

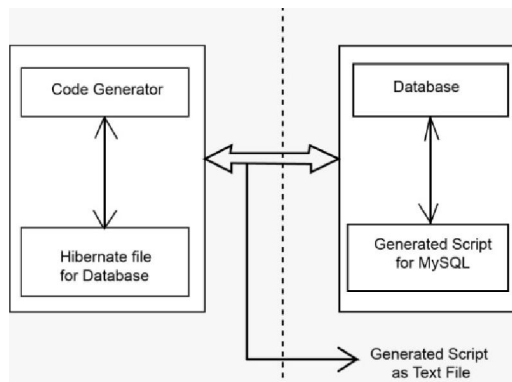
Even though creation of tables has been made easy, conversion of one database to another database provides difficulties for most of each database, tables need to be created from scratch which provides a major drawback with increasing tuples in a table. As a solution to this problem, we have created a various database, similar to workbench without disturbing the characteristics of table.

## II. METHOD

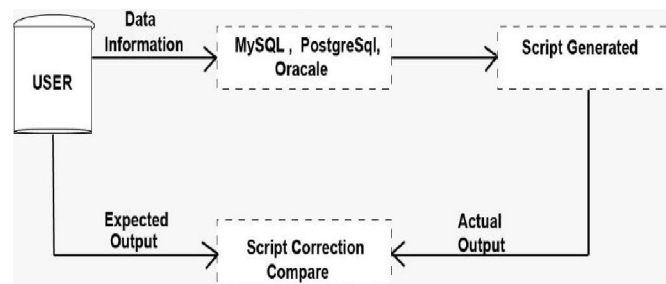
Applications are built as guided user interfaces using the Swing framework, which provides flexibility in application development and operation. Classes such as Textfields, JComboBox and Buttons are used. The GUI makes it easy to assign properties to the various tuples in your table. Use the dropdown box to select the type of database language for which you want to generate query scripts. The application allows you to select a directory using the Browse button. A directory was created pointing to the database. By default, all generated tables are saved in a folder with the same name as the database. Text fields are provided for assigning names to databases,

tables, and tuples. A table was used to display a list of all tuples added to the database table. This creates an interactive session for users to easily add and modify tuples in database tuples. Checkboxes are used to assign properties to different tuples. These checkboxes were selected to remove ambiguity about choosing a primary key rather than a null unique key. A display table adds a row for each attribute to the database table. The database table contains a text box to name the attribute, a check box to add properties to the attribute, and a button labeled "X" to remove the attribute from the database table. Use the button labeled "Triggers" to open the window used to generate triggers.

Validation of the created trigger is done by reading the code written for the trigger. This code will be added to the main script during final code generation. Internal coding is performed to avoid ambiguity when choosing various properties of a tuple.



(a) Architecture Design



(b) Data Flow Model

**III. CONCLUSION**

This application provides a quick way to create scripts to generate tables in different databases with the same table structure. The user interface is user-friendly, saving time and improving efficiency. Several types of code are generated to assist with database migration. The generated script can be modified later by selecting a table from the directory and changing table properties (tuple properties), providing a runtime environment for your application. Table is used to display the attributes of a database table. This is also an interactive way to modify tuples. The generated script will be displayed in a new window and saved as a text file in the specified directory. These text files are saved using the table name. Different versions of the same table created in different time periods are distinguished by naming the text file created using the table name and the date and time the table was created. You can select different tables from the directory for later modification. This is also useful when replicating tables from one database to another. Thus, the successful creation of this application reduced the time spent coding SQL scripts, limited the chance of errors, saved time and effort, and increased developer-efficiency.

**IV. DISCUSSION**

Front-end developers can easily create large tables without having to type long scripts. Table creation errors are avoided and this application provides a time efficient solution. Further versions of this application would help in generating

scripts to perform Data Insertion and merging different tables using the concept of foreign keys. Audit table creation and a visual representation of the database can be shown. By reverse engineering, tables can be listed in the application window by reading a SQL script. Warnings can be added to benefit the user in removing ambiguity from codes

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#### REFERENCES

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