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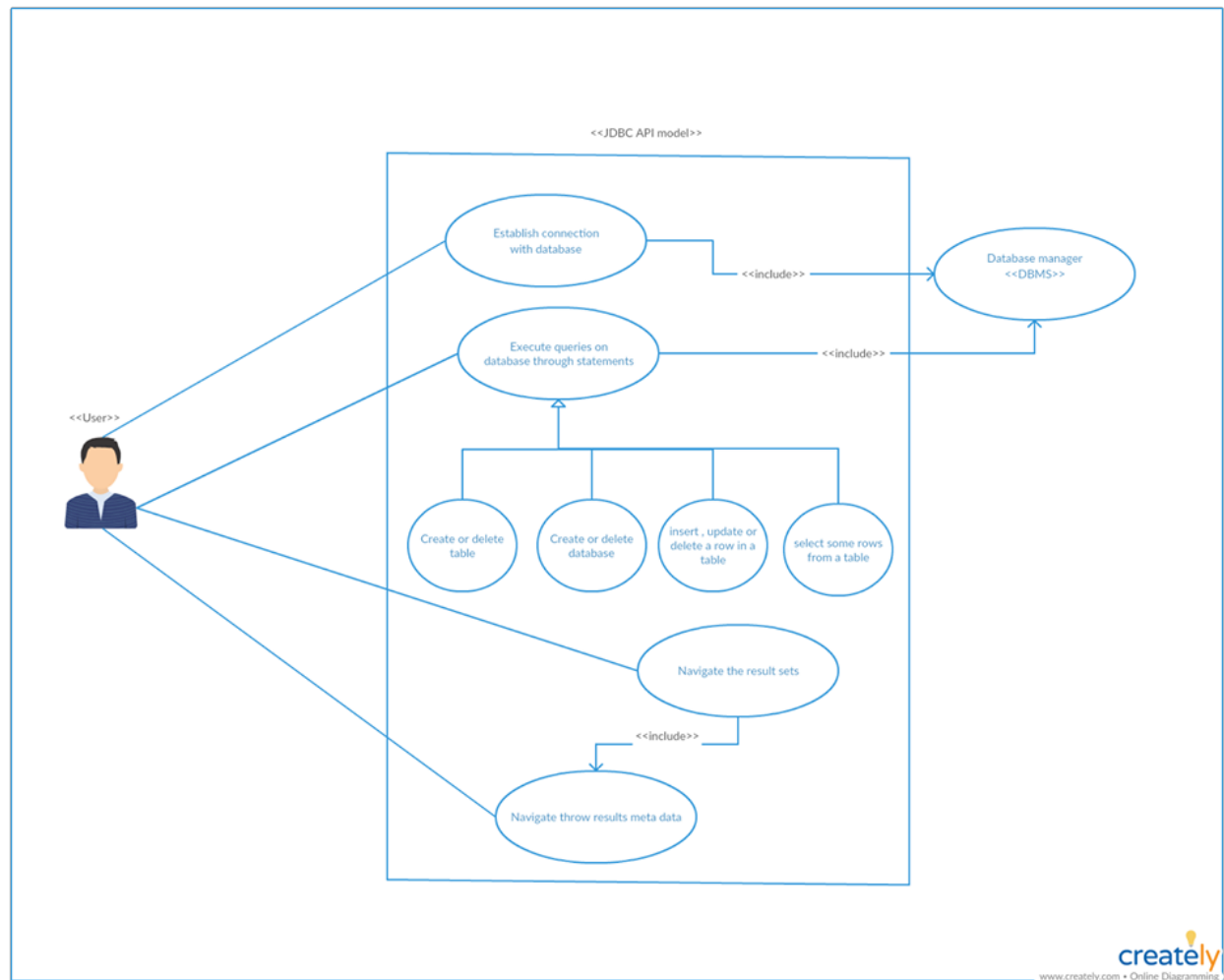
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Introduction

Java Database Connectivity (JDBC) provides Java developers with a standard API that is used to access databases, regardless of the driver and database product. JDBC presents a uniform interface to databases - change vendors and your applications only need to change their driver.

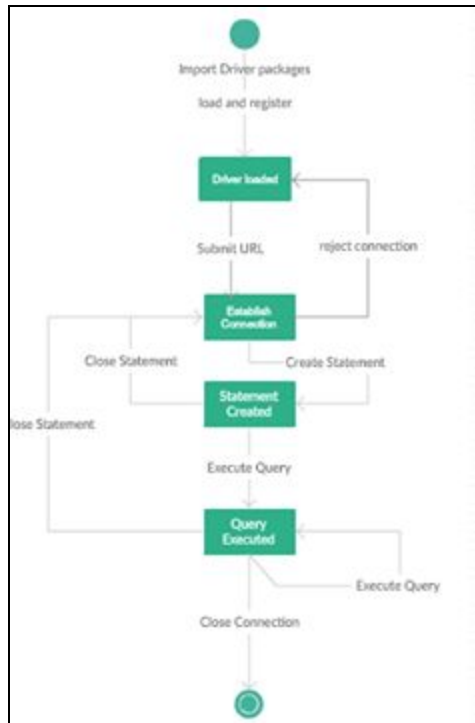
As a team, we divide this project into 4 tasks so that we can work on it together. Every person has taken part in it. One member's responsibility was to implement the ResultSets and the ResultSetMetaData interfaces and one took care of the driver and the connection class and the statement class was implemented by all the members. Logs where the responsibility of the third member and the fourth made the GUI.

Use Case Diagram

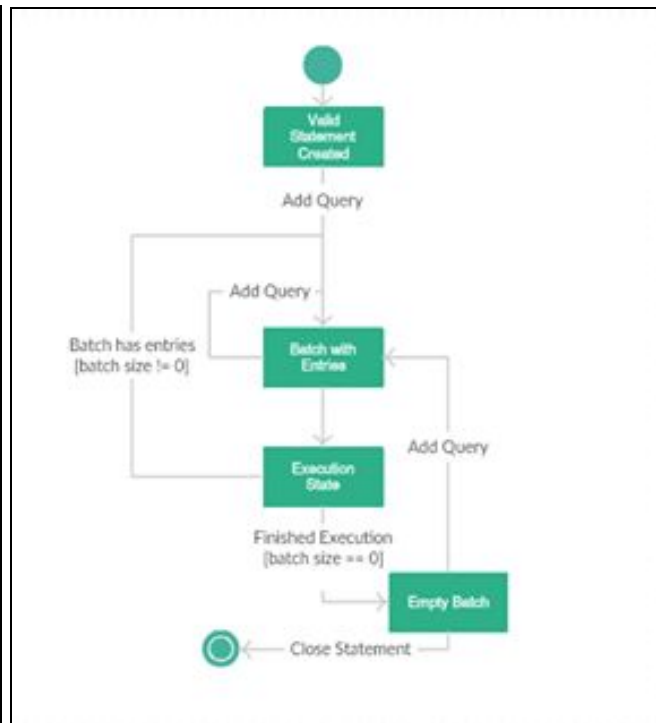


State Diagram

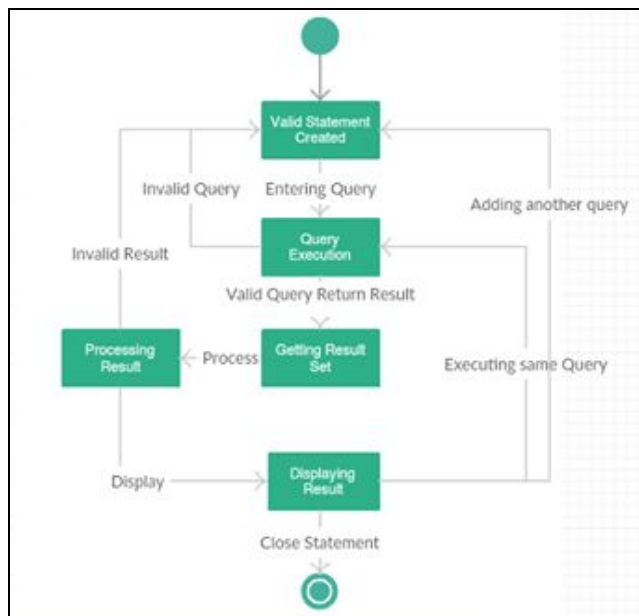
Scenario 1



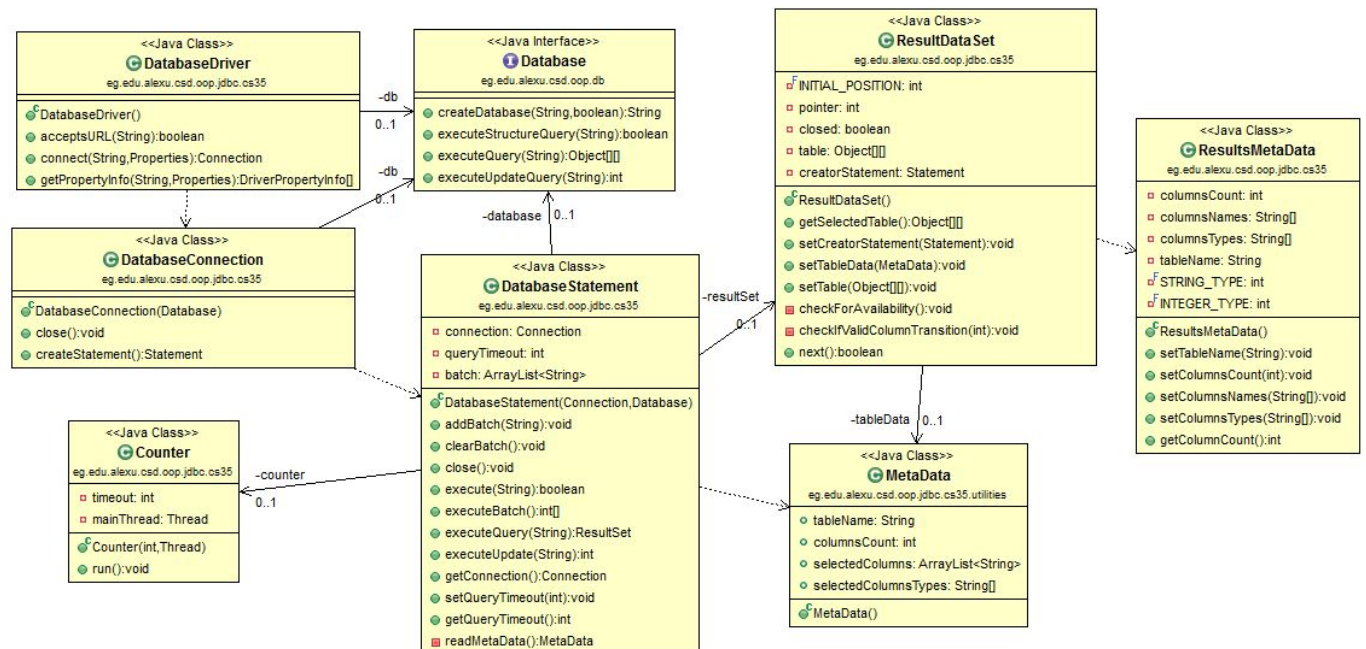
Scenario 2



Scenario 3



UML Class Diagram



GUI Snapshots

The image shows a screenshot of a database GUI window. The window has a title bar with standard minimize, maximize, and close buttons. The main area is divided into several sections:

- Top Section:** A text input field labeled "URL Connection" is followed by "Connect" and "Close" buttons.
- Left Section:** A large text area labeled "Connection Established" is currently empty.
- Right Section:** A large button labeled "Go To Result Set" is positioned vertically.
- Bottom Left Section:** A text input field contains the SQL query `select * from table_name1`. Below this field is a "Clear" button.
- Bottom Right Section:** A cluster of buttons including "Get Query Time", "Excute Batch", "Clear Batch", "Add Batch", "Excute Query", "Execute", "Excute Update", and "Set Query Time".

Table name : table_name1
Column Count = 3
Columns Names Columns Types
column_name1 String
column_name2 Integer
column_name3 String

Control the Cursor in table
Position In Table ▾
 Move to Index

Check the Cursor Position
Is First ? Is Before First ?
Is Last ? Is After Last ?

Entre Calumn Number Get Column Type Get Calumn Name Get Table Name

Get String Value Get Int Value Get Object Find Column

Get Data Get Columns Count

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References

- <http://docs.oracle.com/javase/tutorial/jdbc/>
- https://en.wikipedia.org/wiki/Java_Database_Connectivity