JDBC

OBJECT-ORIANTED PROJECT

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Amr Khaled (28).

Mohamed Alaa (42).

Mustafa Mohamed(50).

Description

- 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.

Features

- In this program, you can manage databases and tables using a user-friendly Gui.

- User is supported with log showing his activity consequences.

- The program also supports Adding Batches.

- You can select any column with any condition.

- You can also update your existent data or remove them.

- You can insert any additional data under any condition.

Design overview & Decisions

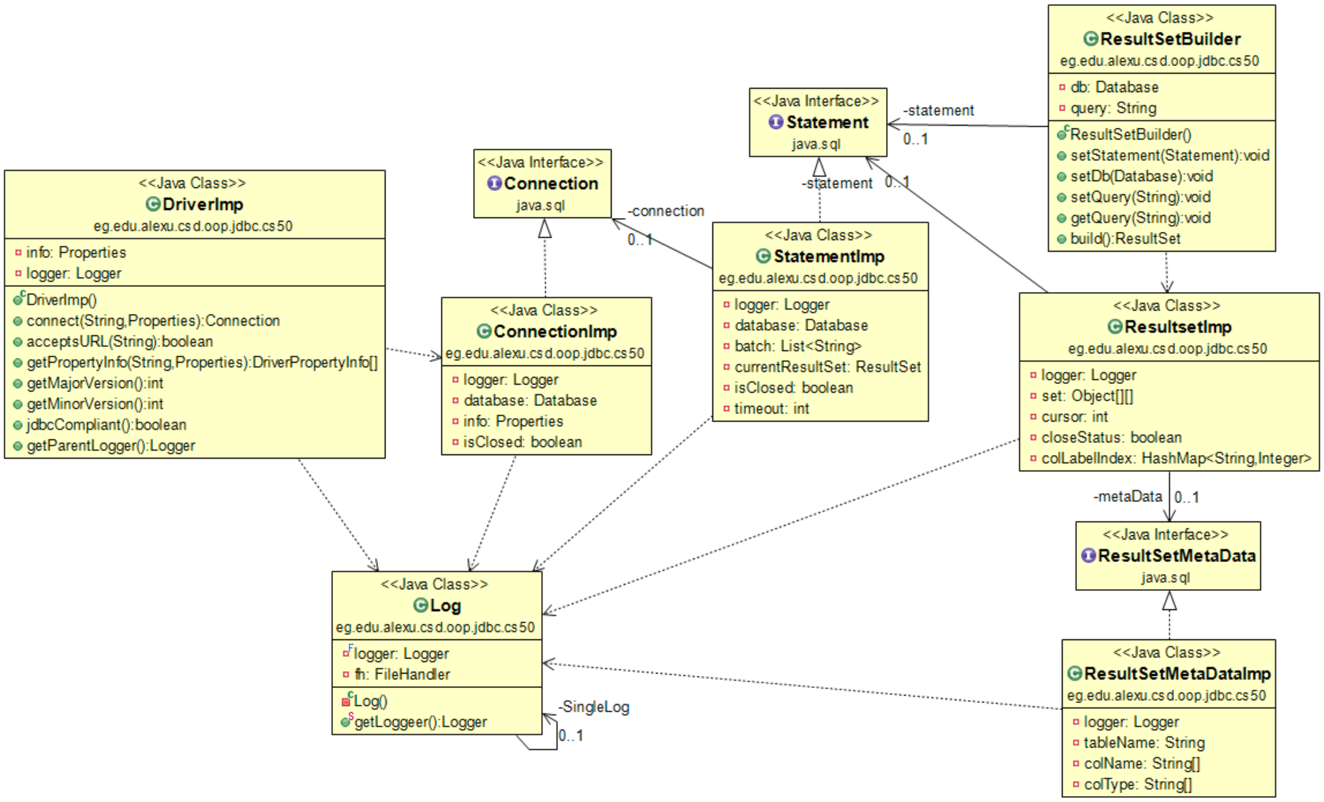
Javafx is used to Implement the Interface.

- Project Consists of many Implementations of Built-In interfaces such as Connection, Driver, Statement .. it also uses the classes from the dbms project to execute input queries.

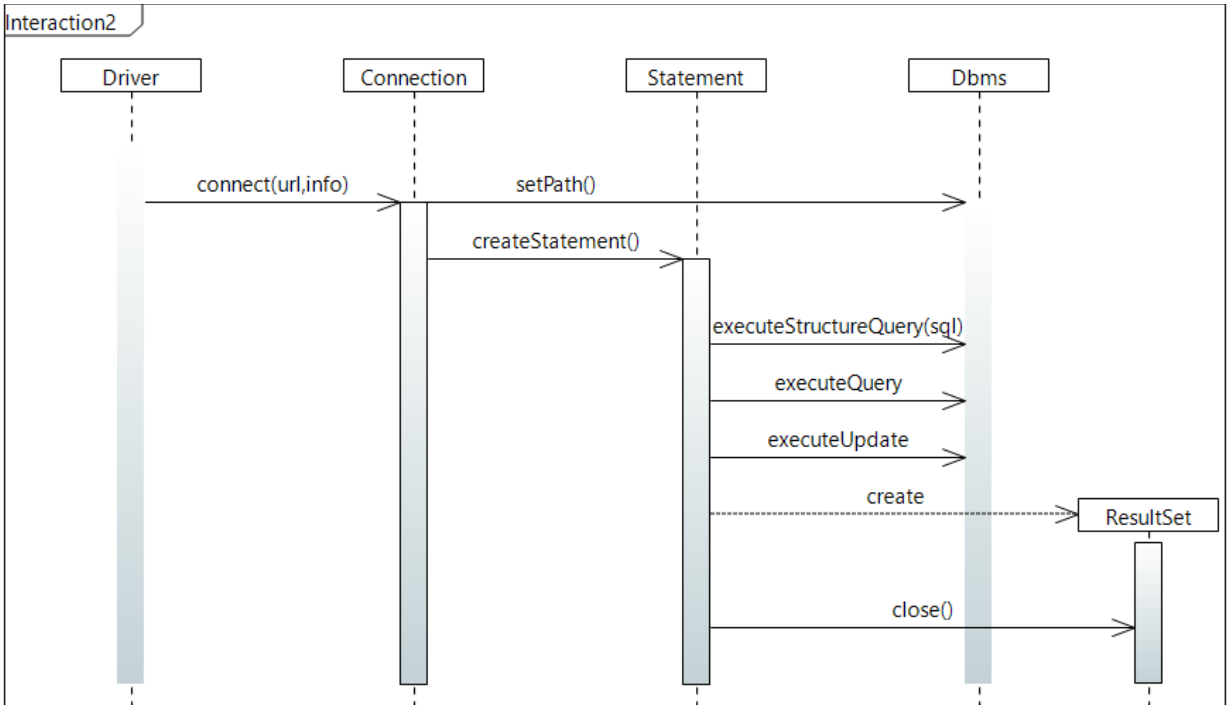
- The Working space is by Default a Directory called “workspace” sibling to the running jar file / main class.

Diagrams

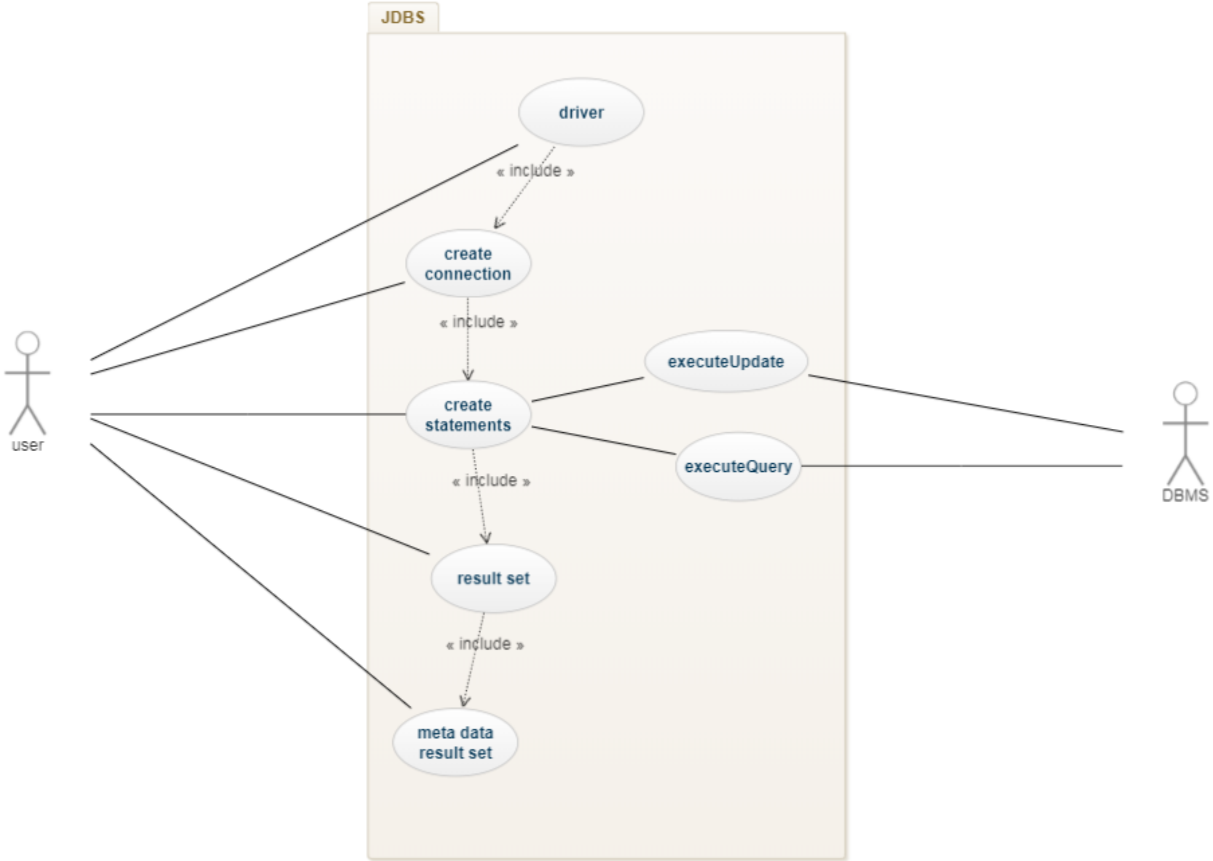
UML :



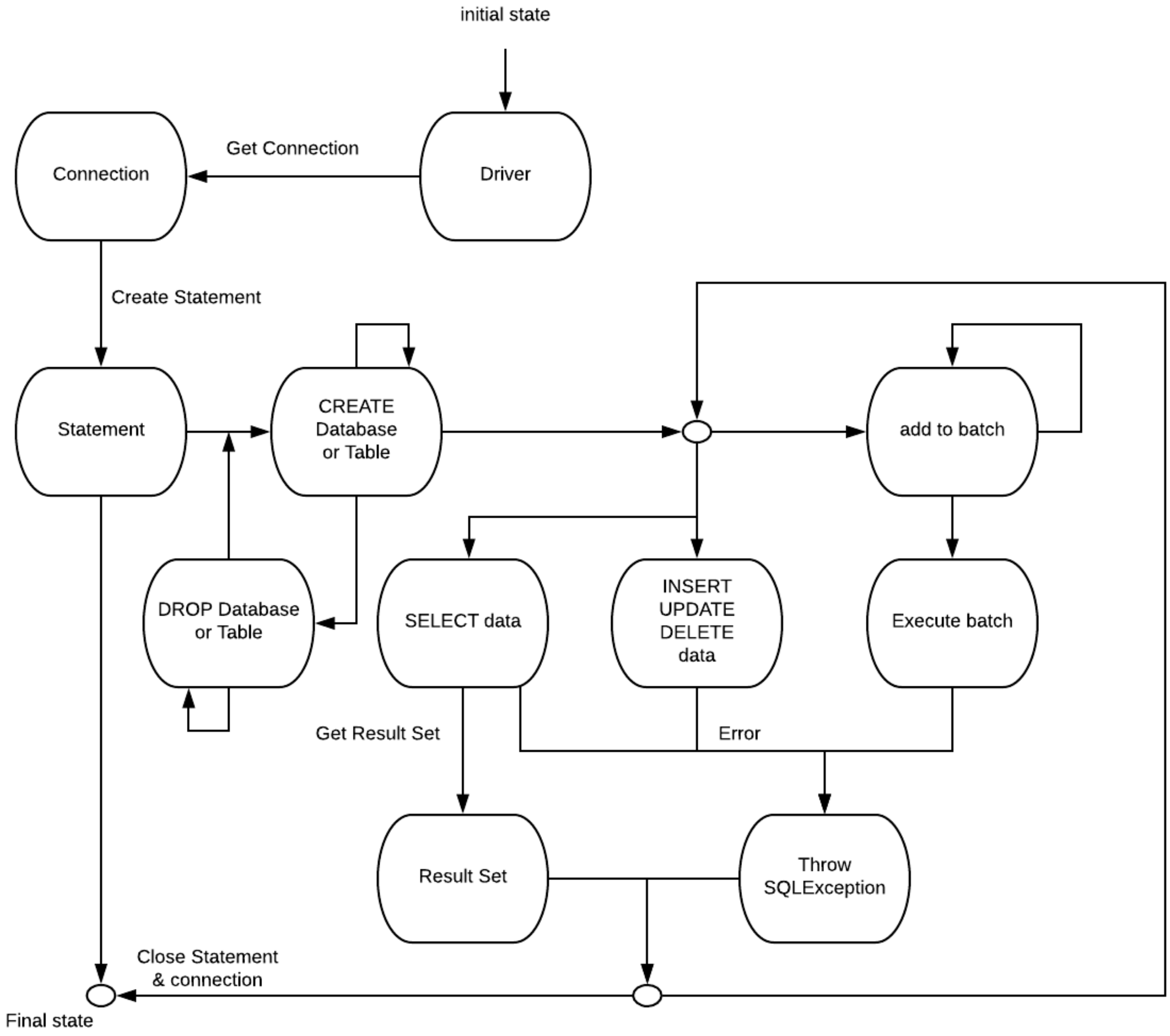
Sequence Diagram :



Use Case :



Class Diagram



division of labor among group members

1)Ahmed Ashraf, Amr Khaled :

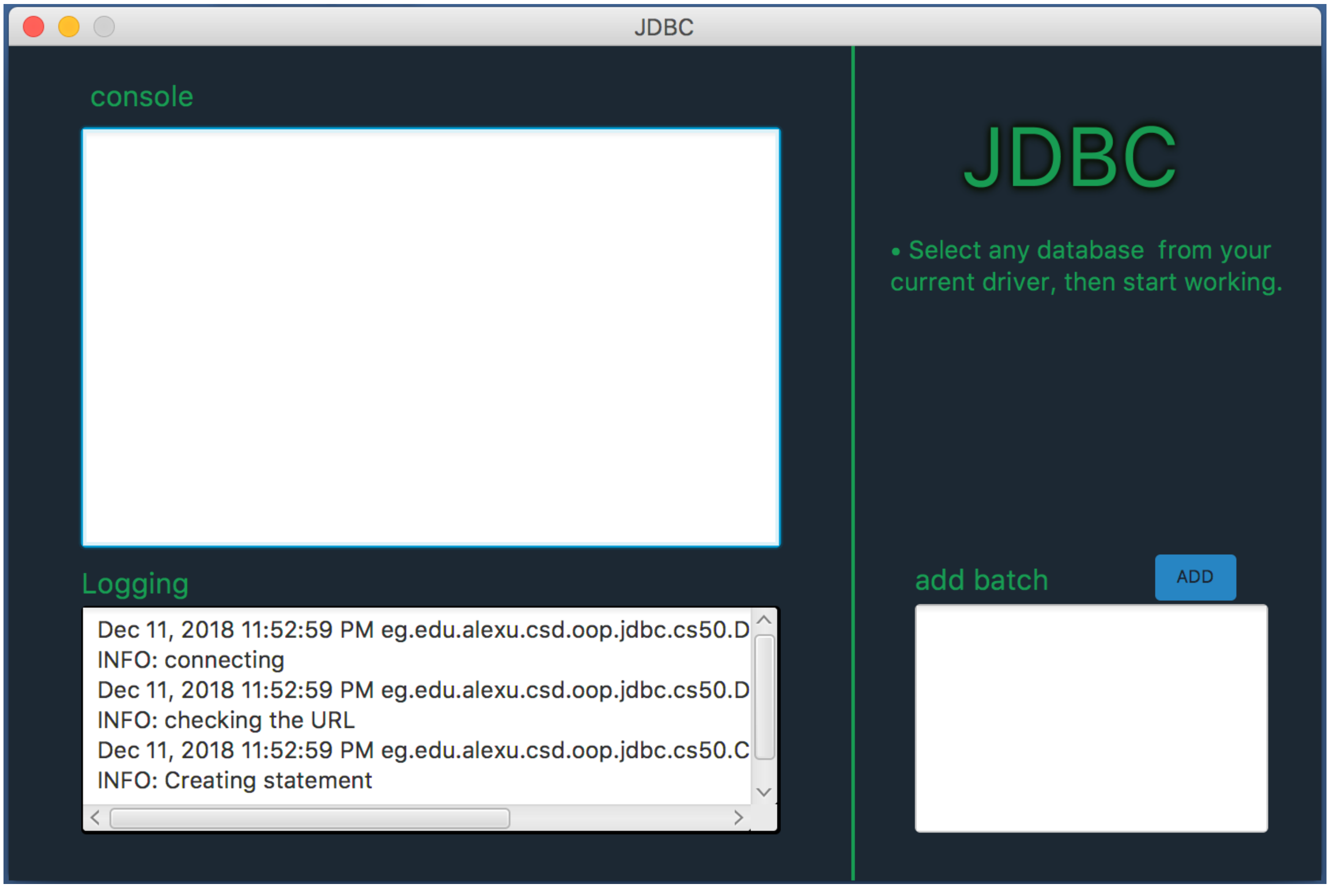
ResultSet,ResultSetMetaData, Timer, UI.

3)Mohamed Alaa, Mustafa mohamed :

Driver, Connection, Statement, Logger, Diagrams .

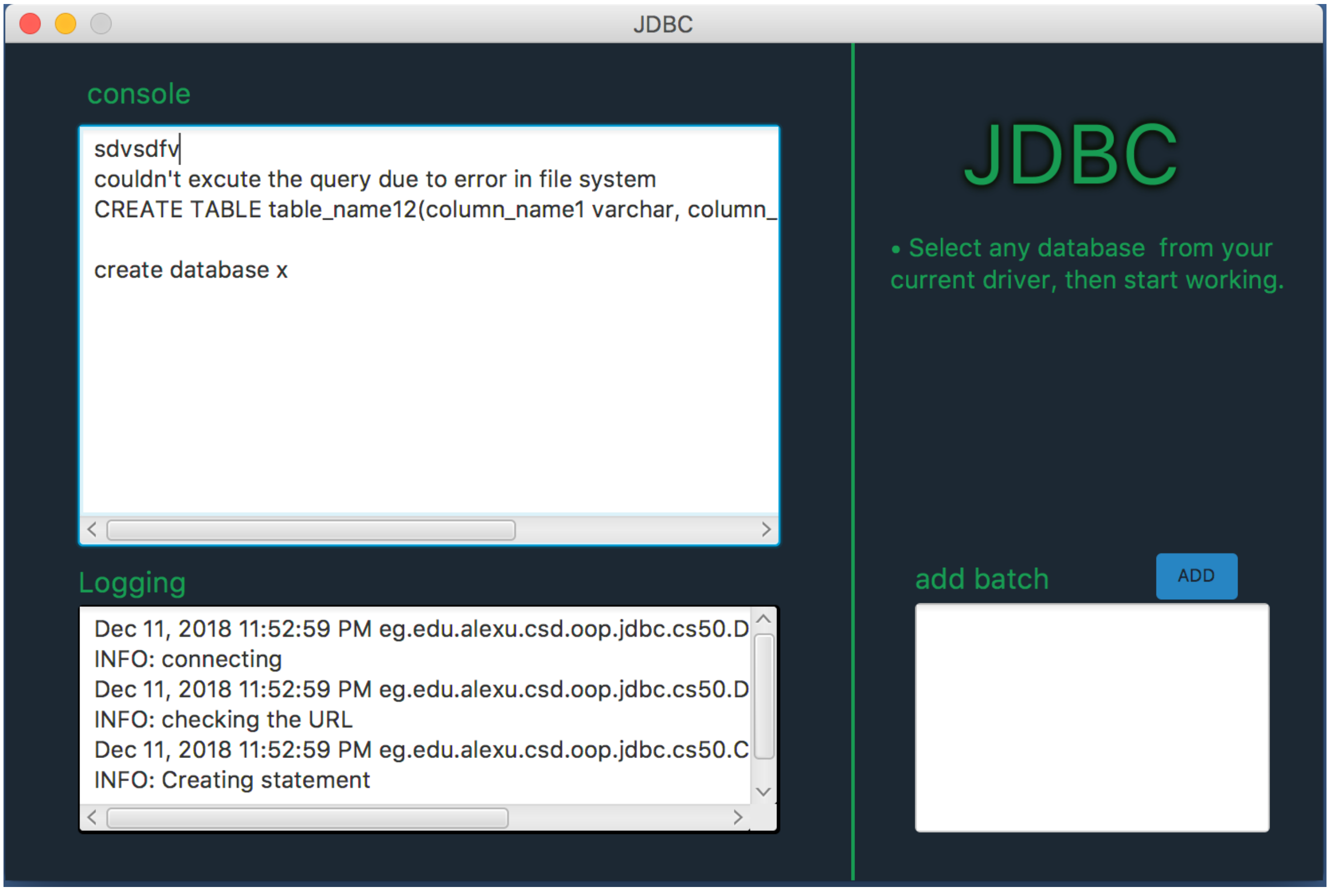
Team Collaborated in editing and updating every single function in the project as it’s shown in bitbucket commits.

User Manual



• Select any database from your current driver, then start working.

```
Dec 11, 2018 11:52:59 PM eg.edu.alexu.csd.oop.jdbc.cs50.D
INFO: connecting
Dec 11, 2018 11:52:59 PM eg.edu.alexu.csd.oop.jdbc.cs50.D
INFO: checking the URL
Dec 11, 2018 11:52:59 PM eg.edu.alexu.csd.oop.jdbc.cs50.C
INFO: Creating statement
```



```
sdvsdfv
couldn't excute the query due to error in file system
CREATE TABLE table_name12(column_name1 varchar, column_

create database x
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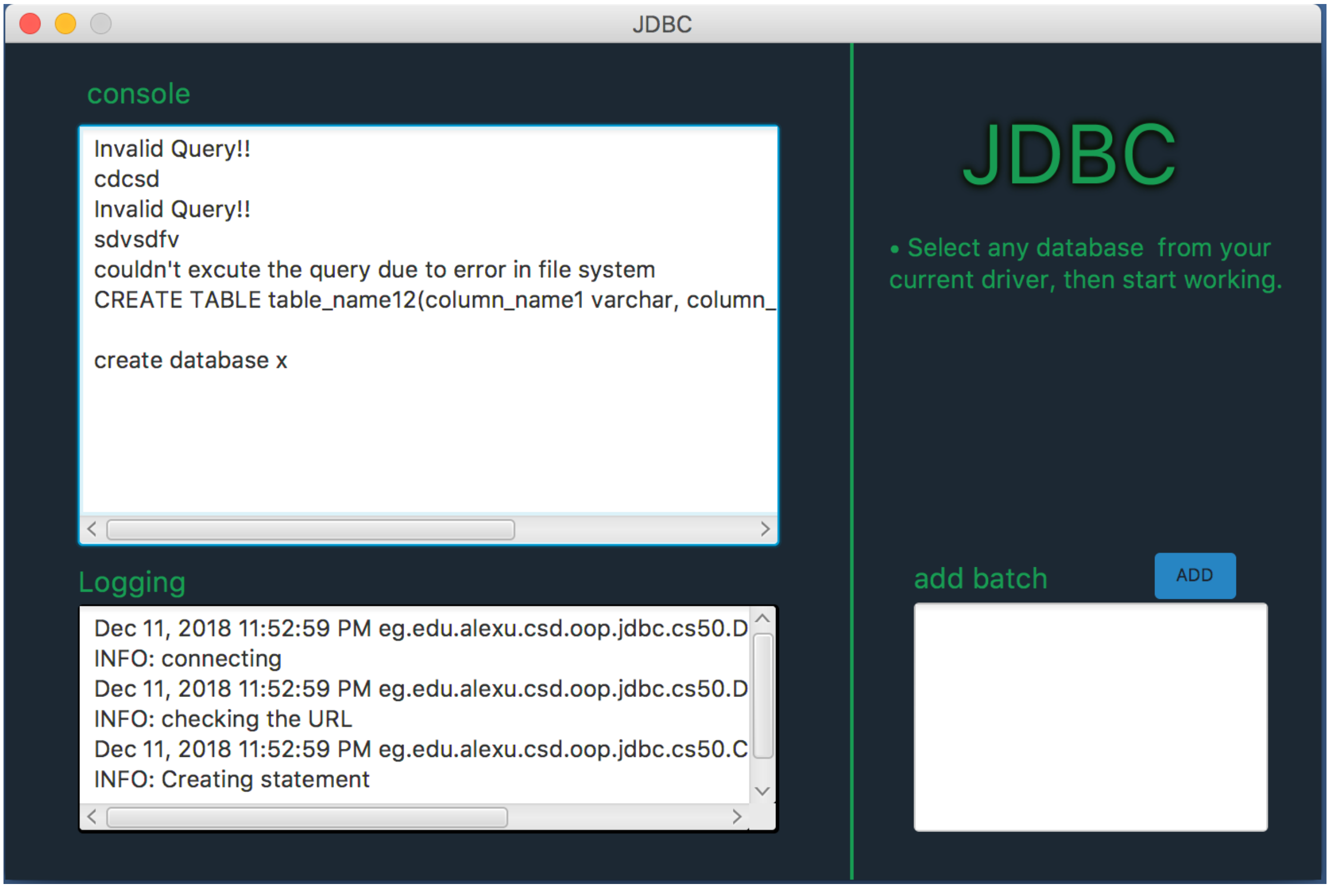

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Invalid Query!!
cdcsd
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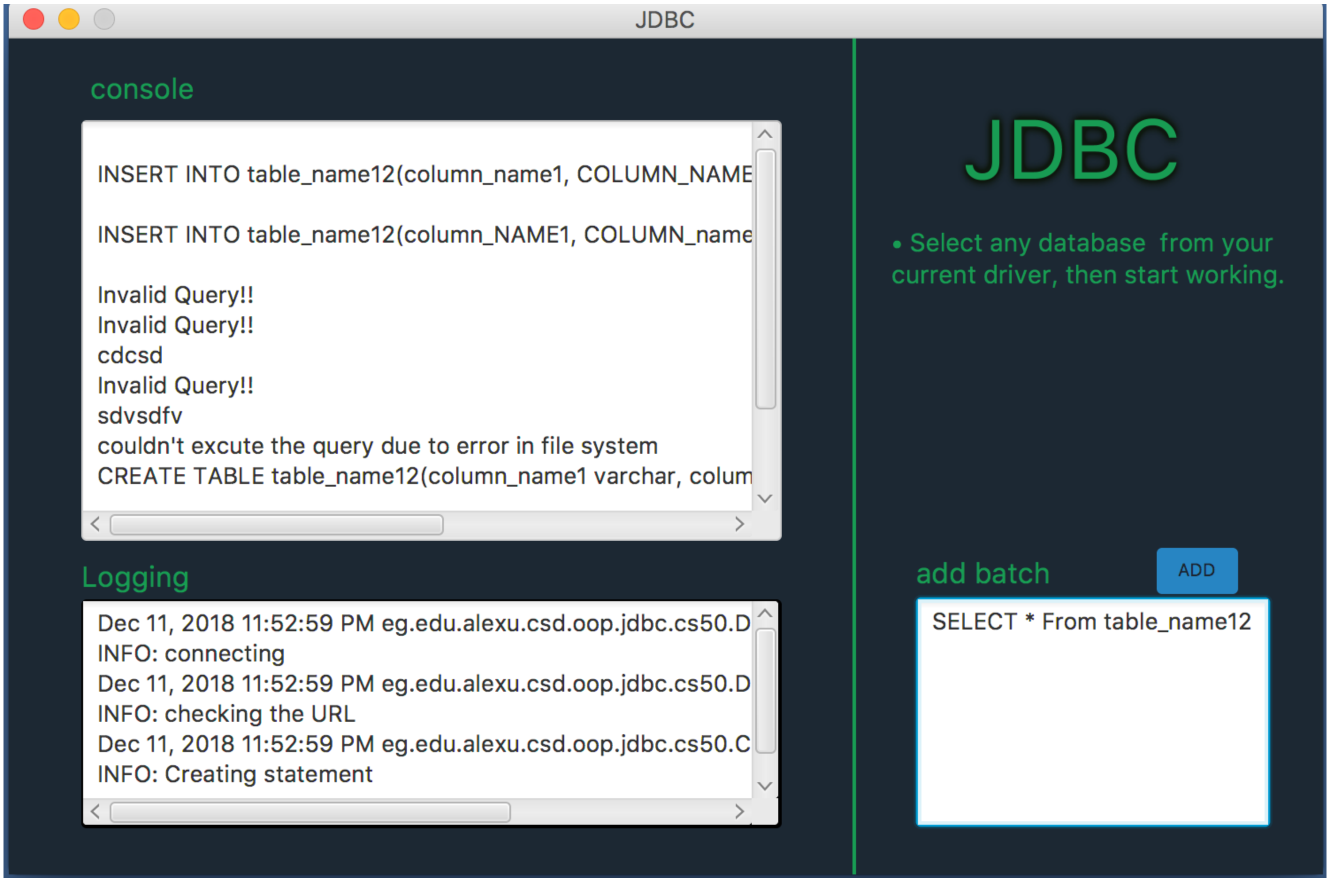

```

INSERT INTO table_name12(column_name1, COLUMN_NAME

INSERT INTO table_name12(column_NAME1, COLUMN_name

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Invalid Query!!
cdcsd
Invalid Query!!
sdvsdfv
couldn't excute the query due to error in file system
CREATE TABLE table_name12(column_name1 varchar, colum
```

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INFO: connecting
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Dec 11, 2018 11:52:59 PM eg.edu.alexu.csd.oop.jdbc.cs50.C
INFO: Creating statement
```

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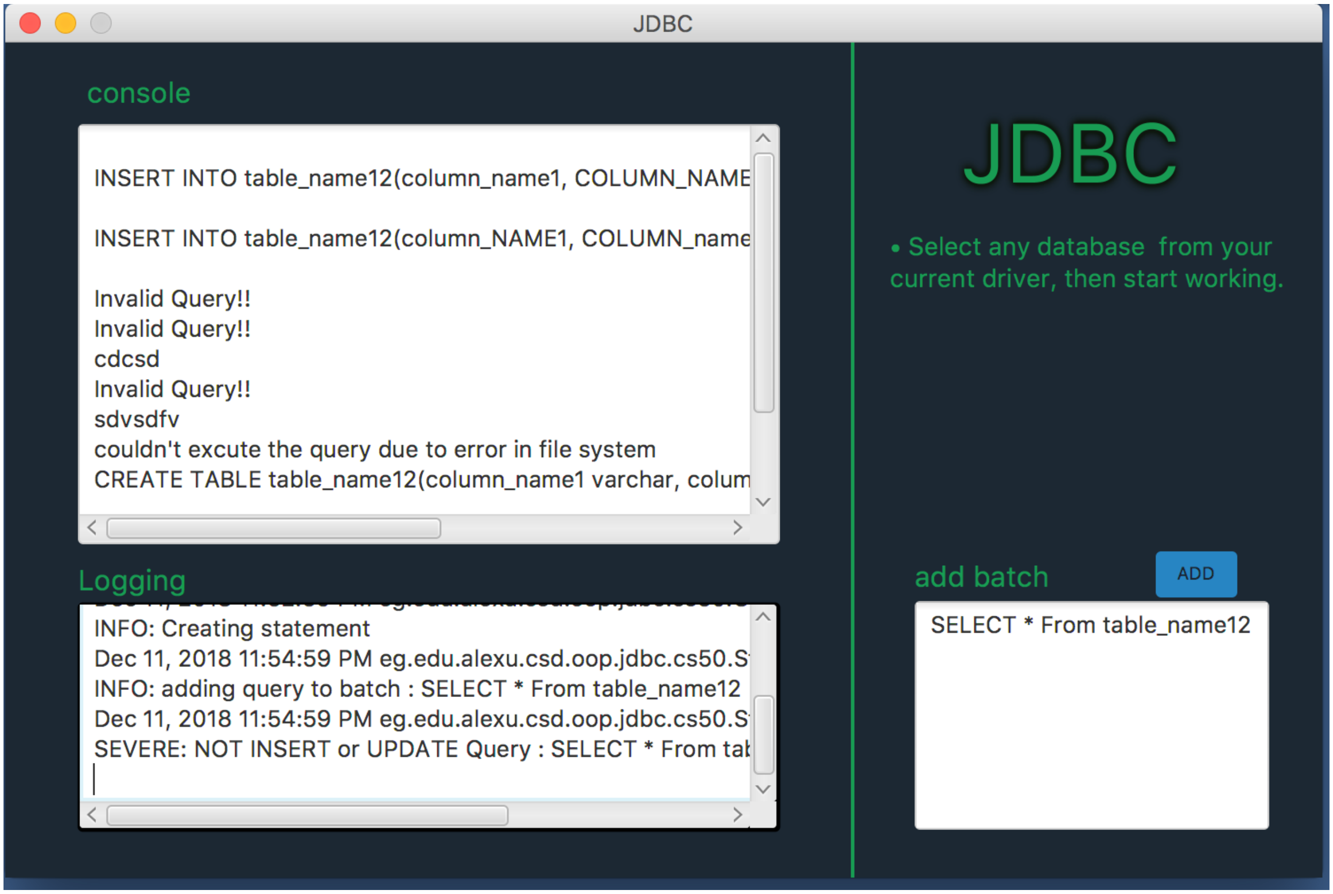
```
SELECT * From table_name12
```



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Invalid Query!!
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Invalid Query!!
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couldn't excute the query due to error in file system
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```

```
INFO: Creating statement
Dec 11, 2018 11:54:59 PM eg.edu.alexu.csd.oop.jdbc.cs50.S
INFO: adding query to batch : SELECT * From table_name12
Dec 11, 2018 11:54:59 PM eg.edu.alexu.csd.oop.jdbc.cs50.S
SEVERE: NOT INSERT or UPDATE Query : SELECT * From tab
```

```
SELECT * From table_name12
```