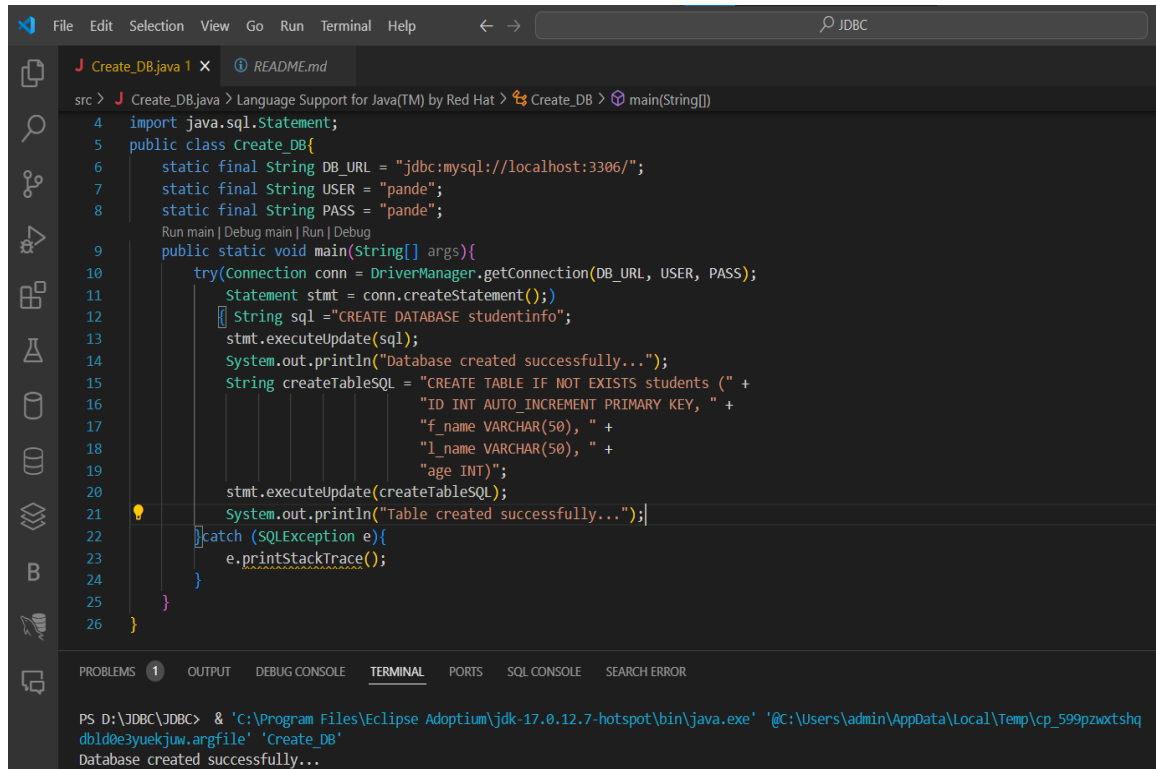


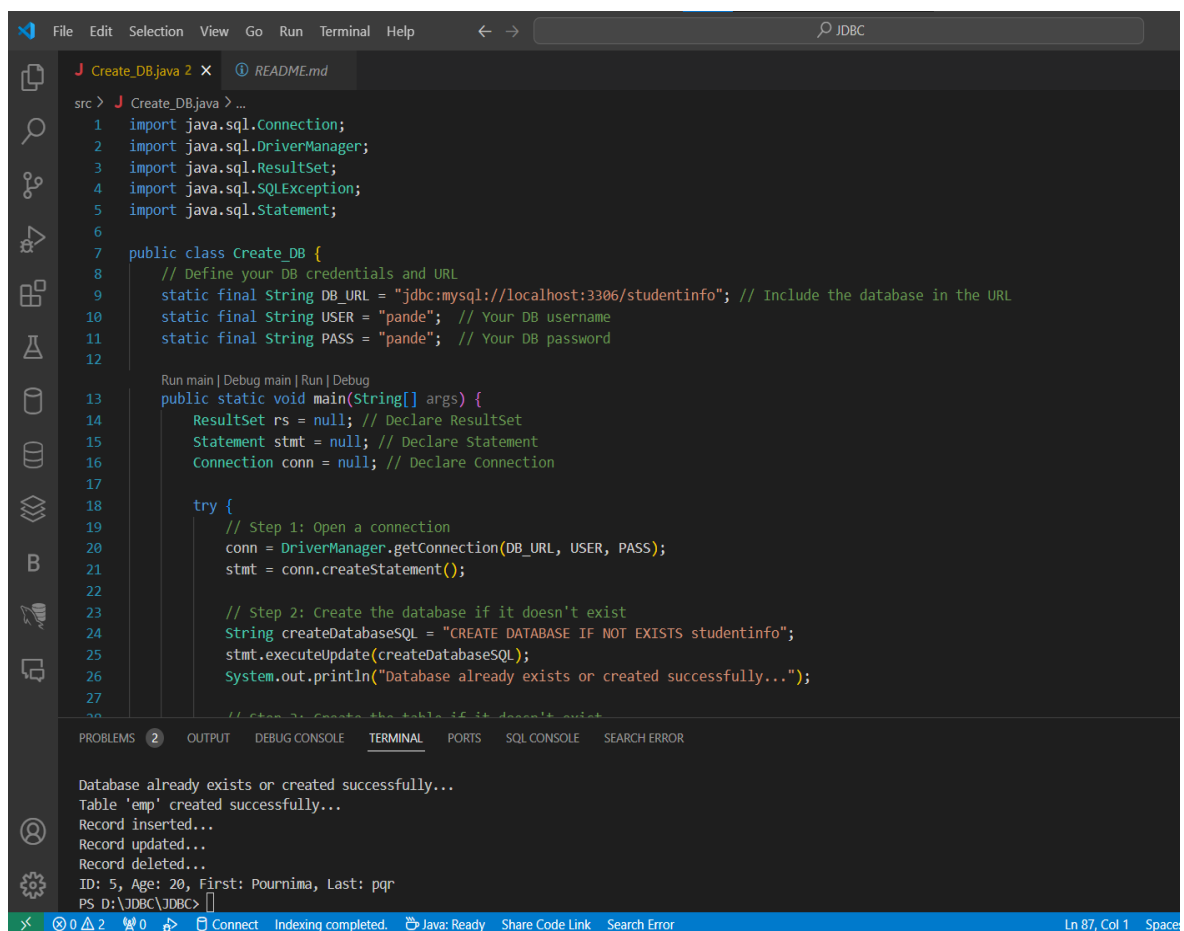
Name: Krishna Kawale  
Assignment 08  
Create Database



```
src > J Create_DB.java 1 x README.md
src > J Create_DB.java > Language Support for Java(TM) by Red Hat > Create_DB > main(String[])
4 import java.sql.Statement;
5 public class Create_DB{
6     static final String DB_URL = "jdbc:mysql://localhost:3306/";
7     static final String USER = "pande";
8     static final String PASS = "pande";
9     public static void main(String[] args){
10         try(Connection conn = DriverManager.getConnection(DB_URL, USER, PASS));
11             Statement stmt = conn.createStatement();
12             String sql ="CREATE DATABASE studentinfo";
13             stmt.executeUpdate(sql);
14             System.out.println("Database created successfully...");
15             String createTablesSQL = "CREATE TABLE IF NOT EXISTS students (" +
16                                     "ID INT AUTO_INCREMENT PRIMARY KEY, " +
17                                     "f_name VARCHAR(50), " +
18                                     "l_name VARCHAR(50), " +
19                                     "age INT)";
20             stmt.executeUpdate(createTablesSQL);
21             System.out.println("Table created successfully...");
22         }catch (SQLException e){
23             e.printStackTrace();
24         }
25     }
26 }
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE SEARCH ERROR

```
PS D:\JDBC\JDBC> & 'C:\Program Files\Eclipse Adoptium\jdk-17.0.12-hotspot\bin\java.exe' '@C:\Users\admin\AppData\Local\Temp\cp_599pzwtshq
dbld0e3yuekjw.argfile' 'Create_DB'
Database created successfully...
```

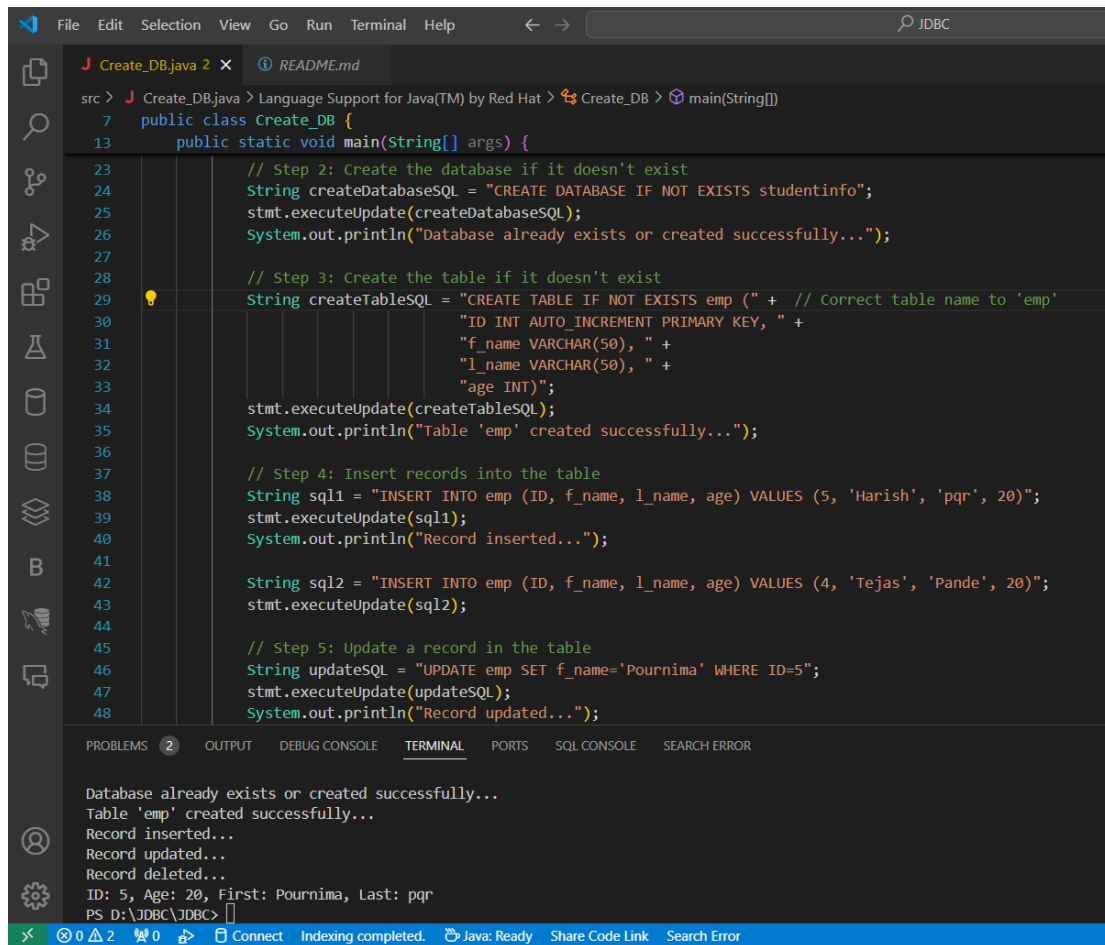


```
J Create_DB.java 2 x README.md
src > J Create_DB.java > ...
1 import java.sql.Connection;
2 import java.sql.DriverManager;
3 import java.sql.ResultSet;
4 import java.sql.SQLException;
5 import java.sql.Statement;
6
7 public class Create_DB {
8     // Define your DB credentials and URL
9     static final String DB_URL = "jdbc:mysql://localhost:3306/studentinfo"; // Include the database in the URL
10    static final String USER = "pande"; // Your DB username
11    static final String PASS = "pande"; // Your DB password
12
13    Run main | Debug main | Run | Debug
14    public static void main(String[] args) {
15        ResultSet rs = null; // Declare ResultSet
16        Statement stmt = null; // Declare Statement
17        Connection conn = null; // Declare Connection
18
19        try {
20            // Step 1: Open a connection
21            conn = DriverManager.getConnection(DB_URL, USER, PASS);
22            stmt = conn.createStatement();
23
24            // Step 2: Create the database if it doesn't exist
25            String createDatabaseSQL = "CREATE DATABASE IF NOT EXISTS studentinfo";
26            stmt.executeUpdate(createDatabaseSQL);
27            System.out.println("Database already exists or created successfully...");
28
29            // Step 3: Create the table if it doesn't exist
30            String createTableSQL = "CREATE TABLE IF NOT EXISTS emp (" +
31                                    "ID INT AUTO_INCREMENT PRIMARY KEY, " +
32                                    "first_name VARCHAR(50), " +
33                                    "last_name VARCHAR(50), " +
34                                    "age INT)";
35            stmt.executeUpdate(createTableSQL);
36            System.out.println("Table 'emp' created successfully...");
37
38            // Step 4: Insert a record
39            String insertSQL = "INSERT INTO emp (first_name, last_name, age) VALUES ('Pournima', 'pqr', 20)";
40            stmt.executeUpdate(insertSQL);
41            System.out.println("Record inserted...");
42
43            // Step 5: Update a record
44            String updateSQL = "UPDATE emp SET first_name = 'Krishna' WHERE ID = 5";
45            stmt.executeUpdate(updateSQL);
46            System.out.println("Record updated...");
47
48            // Step 6: Delete a record
49            String deleteSQL = "DELETE FROM emp WHERE ID = 5";
50            stmt.executeUpdate(deleteSQL);
51            System.out.println("Record deleted...");
52
53            ID: 5, Age: 20, First: Pournima, Last: pqr
54            PS D:\JDBC\JDBC>
55        }catch (SQLException e){
56            e.printStackTrace();
57        }
58    }
59 }
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE SEARCH ERROR

```
Database already exists or created successfully...
Table 'emp' created successfully...
Record inserted...
Record updated...
Record deleted...
ID: 5, Age: 20, First: Pournima, Last: pqr
PS D:\JDBC\JDBC>
```

Ln 87, Col 1 Space

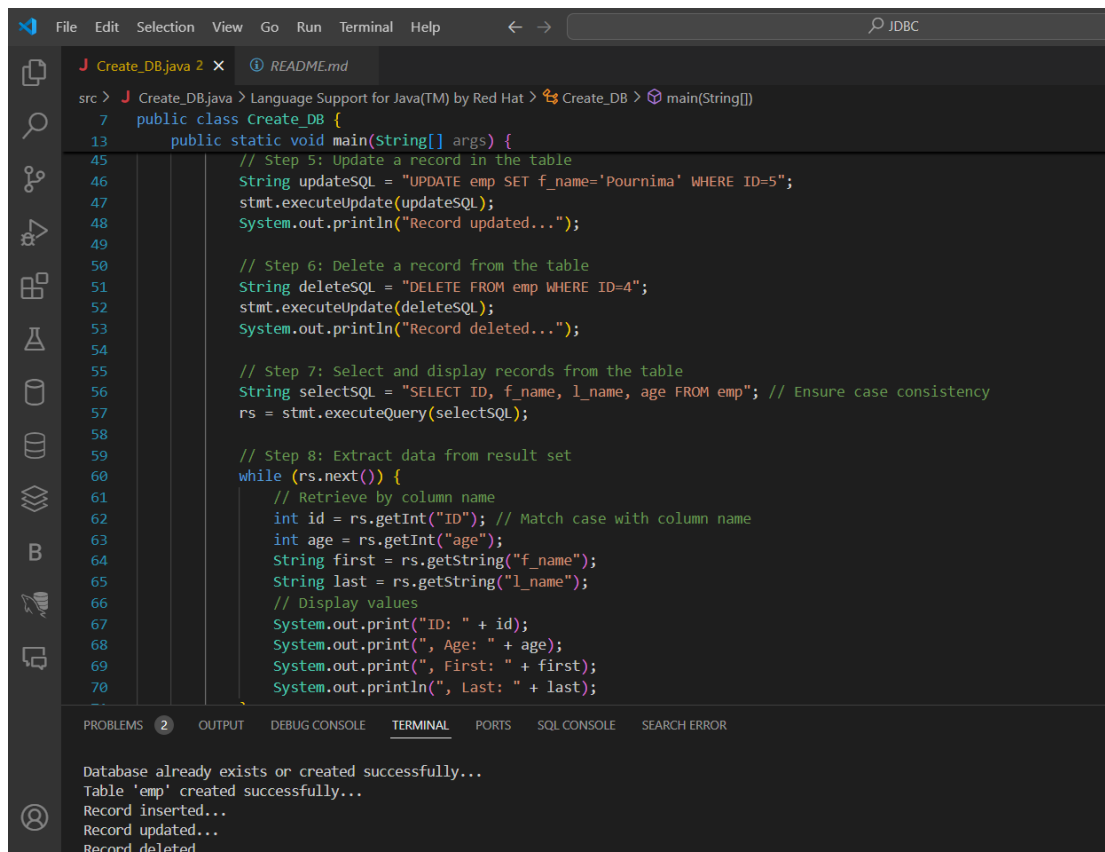


```
src > J Create_DB.java > Language Support for Java(TM) by Red Hat > Create_DB > main(String[])
7 public class Create_DB {
13 public static void main(String[] args) {

23 // Step 2: Create the database if it doesn't exist
24 String createDatabaseSQL = "CREATE DATABASE IF NOT EXISTS studentinfo";
25 stmt.executeUpdate(createDatabaseSQL);
26 System.out.println("Database already exists or created successfully...");
27
28 // Step 3: Create the table if it doesn't exist
29 String createTablesSQL = "CREATE TABLE IF NOT EXISTS emp (" + // Correct table name to 'emp'
30 "ID INT AUTO_INCREMENT PRIMARY KEY, " +
31 "f_name VARCHAR(50), " +
32 "l_name VARCHAR(50), " +
33 "age INT)";
34 stmt.executeUpdate(createTablesSQL);
35 System.out.println("Table 'emp' created successfully...");
36
37 // Step 4: Insert records into the table
38 String sql1 = "INSERT INTO emp (ID, f_name, l_name, age) VALUES (5, 'Harish', 'pqr', 20)";
39 stmt.executeUpdate(sql1);
40 System.out.println("Record inserted...");
41
42 String sql2 = "INSERT INTO emp (ID, f_name, l_name, age) VALUES (4, 'Tejas', 'Pande', 20)";
43 stmt.executeUpdate(sql2);
44
45 // Step 5: Update a record in the table
46 String updateSQL = "UPDATE emp SET f_name='Pournima' WHERE ID=5";
47 stmt.executeUpdate(updateSQL);
48 System.out.println("Record updated...");

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE SEARCH ERROR

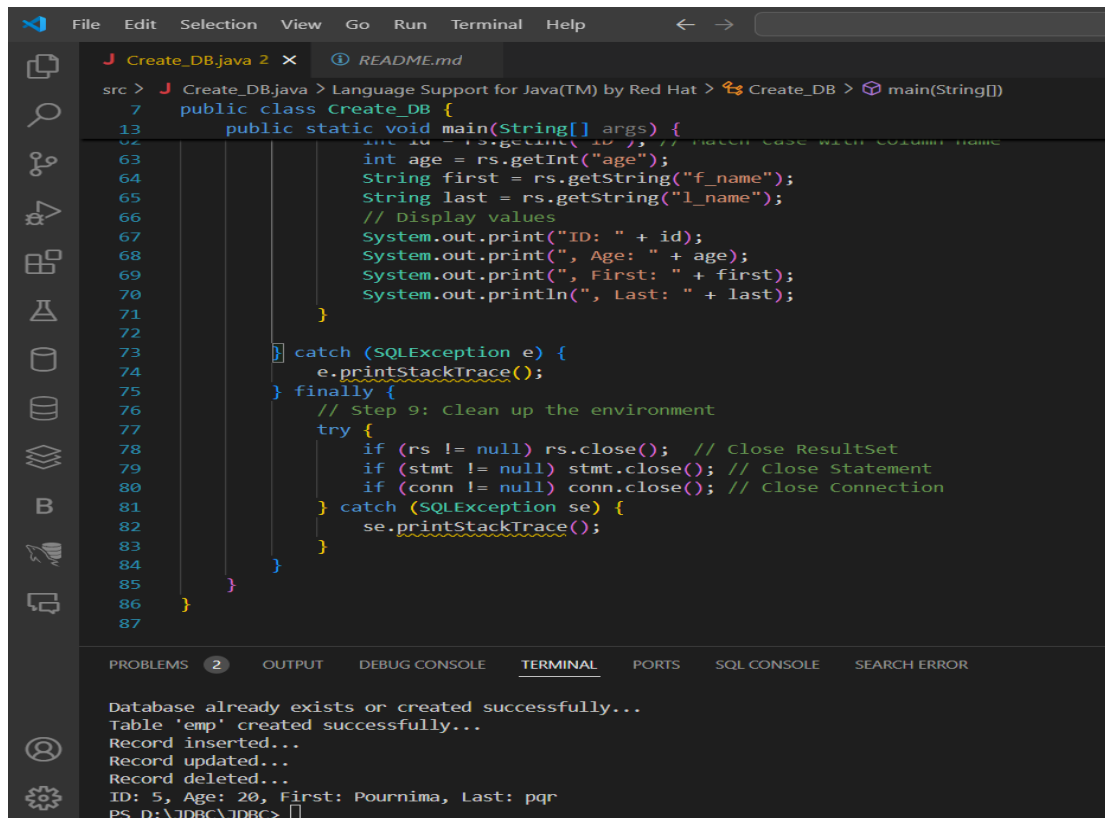
Database already exists or created successfully...
Table 'emp' created successfully...
Record inserted...
Record updated...
Record deleted...
ID: 5, Age: 20, First: Pournima, Last: pqr
PS D:\JDBC\JDBC>
```



```
45 // Step 5: Update a record in the table
46 String updateSQL = "UPDATE emp SET f_name='Pournima' WHERE ID=5";
47 stmt.executeUpdate(updateSQL);
48 System.out.println("Record updated...");
49
50 // Step 6: Delete a record from the table
51 String deleteSQL = "DELETE FROM emp WHERE ID=4";
52 stmt.executeUpdate(deleteSQL);
53 System.out.println("Record deleted...");
54
55 // Step 7: Select and display records from the table
56 String selectSQL = "SELECT ID, f_name, l_name, age FROM emp"; // Ensure case consistency
57 rs = stmt.executeQuery(selectSQL);
58
59 // Step 8: Extract data from result set
60 while (rs.next()) {
61 // Retrieve by column name
62 int id = rs.getInt("ID"); // Match case with column name
63 int age = rs.getInt("age");
64 String first = rs.getString("f_name");
65 String last = rs.getString("l_name");
66 // Display values
67 System.out.print("ID: " + id);
68 System.out.print(", Age: " + age);
69 System.out.print(", First: " + first);
70 System.out.println(", Last: " + last);
71 }

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE SEARCH ERROR

Database already exists or created successfully...
Table 'emp' created successfully...
Record inserted...
Record updated...
Record deleted...
```

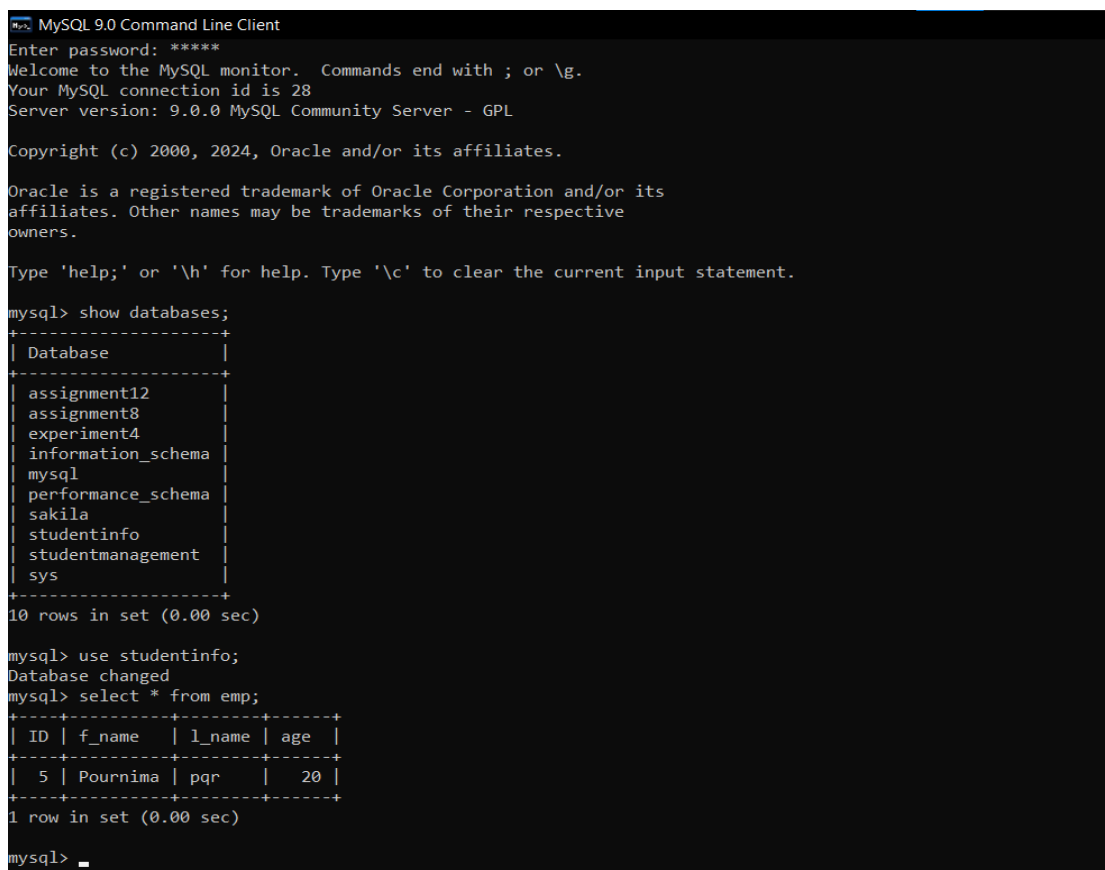


```
src > J Create_DB.java > Language Support for Java(TM) by Red Hat > Create_DB > main(String[])
7 public class Create_DB {
13     public static void main(String[] args) {
14         int id = rs.getInt("id"); // Match case with column name
15         int age = rs.getInt("age");
16         String first = rs.getString("f_name");
17         String last = rs.getString("l_name");
18         // Display values
19         System.out.print("ID: " + id);
20         System.out.print(", Age: " + age);
21         System.out.print(", First: " + first);
22         System.out.println(", Last: " + last);
23     }
24 } catch (SQLException e) {
25     e.printStackTrace();
26 } finally {
27     // Step 9: Clean up the environment
28     try {
29         if (rs != null) rs.close(); // Close ResultSet
30         if (stmt != null) stmt.close(); // Close Statement
31         if (conn != null) conn.close(); // Close Connection
32     } catch (SQLException se) {
33         se.printStackTrace();
34     }
35 }
36 }
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE SEARCH ERROR

Database already exists or created successfully...  
Table 'emp' created successfully...  
Record inserted...  
Record updated...  
Record deleted...  
ID: 5, Age: 20, First: Pournima, Last: pqr  
PS D:\JDBC\JDBC>

## MySQL



```
MySQL 9.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 28
Server version: 9.0.0 MySQL Community Server - GPL

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| assignment12 |
| assignment8 |
| experiment4 |
| information_schema |
| mysql |
| performance_schema |
| sakila |
| studentinfo |
| studentmanagement |
| sys |
+-----+
10 rows in set (0.00 sec)

mysql> use studentinfo;
Database changed
mysql> select * from emp;
+-----+-----+-----+-----+
| ID | f_name | l_name | age |
+-----+-----+-----+-----+
| 5 | Pournima | pqr | 20 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```