**Source Code Exp8:**

**Databasecreation.java**

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

import java.sql.Statement;

public class Databasecreation {

static final String DB\_URL = "jdbc:mysql://localhost:3306/";

static final String USER = "root";

static final String PASS = "admin";

public static void main(String[] args) {

// Open a connection

try(Connection conn = DriverManager.getConnection(DB\_URL, USER, PASS);

Statement stmt = conn.createStatement();

) {

String sql = "CREATE DATABASE STUDENTS1";

stmt.executeUpdate(sql);

System.out.println("Database created successfully...");

} catch (SQLException e) {

e.printStackTrace();

}

}

}

**Tablecreation.java**

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

import java.sql.Statement;

public class Tablecreation {

static final String DB\_URL = "jdbc:mysql://localhost:3306/STUDENTS";

static final String USER = "root";

static final String PASS = "admin";

public static void main(String[] args) {

// Open a connection

try(Connection conn = DriverManager.getConnection(DB\_URL, USER, PASS);

Statement stmt = conn.createStatement();

) {

String sql = "CREATE TABLE REG " +

"(id INTEGER not NULL, " +

" first VARCHAR(255), " +

" last VARCHAR(255), " +

" age INTEGER, " +

" PRIMARY KEY ( id ))";

stmt.executeUpdate(sql);

System.out.println("Created table in given database...");

} catch (SQLException e) {

e.printStackTrace();

}

}

}

**Insertingdata.java**

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

import java.sql.Statement;

public class Insertingdata {

static final String DB\_URL = "jdbc:mysql://localhost:3306/STUDENTS";

static final String USER = "root";

static final String PASS = "admin";

public static void main(String[] args) {

// Open a connection

try(Connection conn = DriverManager.getConnection(DB\_URL, USER, PASS);

Statement stmt = conn.createStatement();

) {

// Execute a query

System.out.println("Inserting records into the table...");

String sql = "INSERT INTO REG VALUES (100, 'Zara', 'Ali', 18)";

stmt.executeUpdate(sql);

sql = "INSERT INTO REG VALUES (101, 'Mahnaz', 'Fatma', 25)";

stmt.executeUpdate(sql);

sql = "INSERT INTO REG VALUES (102, 'Zaid', 'Khan', 30)";

stmt.executeUpdate(sql);

sql = "INSERT INTO REG VALUES(103, 'Sumit', 'Mittal', 28)";

stmt.executeUpdate(sql);

System.out.println("Inserted records into the table...");

} catch (SQLException e) {

e.printStackTrace();

}

}

}

**Displaydata.java**

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

public class Displaydata {

static final String DB\_URL = "jdbc:mysql://localhost:3306/STUDENTS";

static final String USER = "root";

static final String PASS = "admin";

static final String QUERY = "SELECT id, first, last, age FROM REG";

public static void main(String[] args) {

// Open a connection

try(Connection conn = DriverManager.getConnection(DB\_URL, USER, PASS);

Statement stmt = conn.createStatement();

ResultSet rs = stmt.executeQuery(QUERY);

) {

while(rs.next()){

//Display values

System.out.print("ID: " + rs.getInt("id"));

System.out.print(", Age: " + rs.getInt("age"));

System.out.print(", First: " + rs.getString("first"));

System.out.println(", Last: " + rs.getString("last"));

}

} catch (SQLException e) {

e.printStackTrace();

}

}

}

**Output Exp8:**

Database created successfully...

Connecting to a selected database...

Connected database successfully...

Created table in given database...

Inserting records into the table...

Inserted records into the table...

ID: 100, Age: 18, First: Zara, Last: Ali

ID: 101, Age: 25, First: Mahnaz, Last: Fatma

ID: 102, Age: 30, First: Zaid, Last: Khan

ID: 103, Age: 28, First: Sumit, Last: Mittal