

1) Write a code to create a table using JDBC.

Load the JDBC driver

Establish a connection to the database

Create a statement object

Execute a SQL statement to create the table

Close the resources.

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Code :

```
import java.util.*;
```

```
class create table example {
```

```
    public static void main (String[] args) {
```

```
        String password = "your - password";
```

```
        String create tableSQL = "create table employee (" +
```

```
            "ID INT primary key auto : INCREMENT" +  
            "first name varchar [50]" + "last name varchar [50]" +  
            "email varchar [100]" + "hiredate date" + ")";
```

```
        Connection connection = null;
```

```
        Statement statement = null;
```

```
        try {
```

```
            Class.forName ("com.mysql.jdbc.Driver");
```

```
            connection = DriverManager.getConnection (url, user,  
                                                        password);
```

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statement . connection . create statement ;  
statement . execute . update (create table);  
system . out . println ("successfully created");

}  
catch (Class not found exception) {  
system . out . println ("JDBC driver not found");  
e . printStackTrace();  
}

catch (SQL exception) {  
system . out . println ("SQL ERROR");  
}

finally {

try {

catch (SQL exception e) {  
e . printStackTrace(e);  
}

}

}

}

}

Output:

Table Employee Successfully created.



2) write the code to insert the values into table using JDBC.  
Same as create table instruction

code;

```
import java.util.*;
```

```
class insert values;
```

```
public static void main (String args[])
```

```
String url = "jdbc:mysql://localhost:3306/your-database";
```

```
String user = "your-username";
```

```
String pass = "your-pass";
```

```
String insertSQL = "Insert into employee (first name  
last name, email, hiredate)
```

```
{
```

```
Class.forName ("com.mysql.cj.jdbc.Driver");
```

```
stmt.setString (1, "John");
```

```
stmt.setString (2, "Doe");
```

```
stmt.setString (3, "John@gmail.com")
```

```
int rows affect = stmt.executeUpdate();
```

```
finally
```

```
{
```

```
if (stmt != Null) stmt.close();
```

```
if (stmt connection != Null) connection.close();
```

```
}  
catch (sql exception e) {  
    e.printStackTrace();  
}
```

Output:

inserted 1 row(s) into the employee table.

→ 3) update the table using JDBC;

```
import java.util.*;
```

```
class update {
```

```
    public static void main(String [] args) {
```

```
        String user = "your-db";
```

```
        String pass = "your-pass";
```

```
        String updateSQL = "update employee set  
            Email=?, Hire date=?, where ID=?";
```

```
        Connection connection = null;
```

```
        PreparedStatement pstmt = null;
```

```
        catch (Class not found exception e) {
```

```
            System.out.println("JDBC driver not-found");
```

```
            e.printStackTrace();
```

```
}
```



```
finally {
```

```
    try {
```

```
        if (pstmt != null) pstmt.close();
```

```
        if (connection != null) connection.close();
```

```
    }
```

```
    catch (SQLException e) {
```

```
        e.printStackTrace();
```

```
    }
```

```
}
```

```
}
```

```
}
```

Output :

update 1 row(s) in the employee table.