

Practical no: 8

Database creation:

```
package javaprojects;

import java.sql.*;

public class mysql {

    public static void main(String[] args) {

        try {

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

            Connection con= DriverManager.getConnection("jdbc:mysql://localhost:3306/", "root",
"root");

            Statement stm=con.createStatement();

            String str="create database demo1";

            stm.executeUpdate(str);

            System.out.println("Database is created...!");

        }

        catch(Exception e) {

            System.out.println(e);

        }

    }

}
```

Output:

Database is created...!

Table creation:

```
package javaprojects;

import java.sql.*;
import java.util.*;

public class mysql {

    public static void main(String[] args) {

try {

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

    Connection con= DriverManager.getConnection("jdbc:mysql://localhost:3306/", "root",
"root");

    Statement stm=con.createStatement();

    String str="CREATE TABLE product (pid INT, pname VARCHAR(30), price FLOAT)";

    stm.executeUpdate(str);

    System.out.println("Table is Created...!");

}

catch(Exception e) {

    System.out.println(e);

}

}
```

```
}
```

Output:

Table is Created...!

Output:

```
mysql> use demo1;
```

Database changed

```
mysql> desc product;
```

```
+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| pid   | int       | YES  |     | NULL    |       |
| pname | varchar(30) | YES  |     | NULL    |       |
| price | float     | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
```

3 rows in set (0.501 sec)

Data Insertion:

```
package javaprojects;
```

```
import java.sql.*;
```

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

```
public class mysql {
```

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

```
try {  
    Class.forName("com.mysql.cj.jdbc.Driver");  
    Connection con= DriverManager.getConnection("jdbc:mysql://localhost:3306/ ", "root",  
"root");  
    Statement stm=con.createStatement();  
    //String str="CREATE TABLE product (pid INT, pname VARCHAR(30), price float);  
    Scanner obj=new Scanner(System.in);  
    int pid;  
    String pname;  
    float price;  
    System.out.println("Enter the value of pid");  
    pid=obj.nextInt();  
    System.out.println("Enter the value of pname");  
    pname=obj.next();  
    System.out.println("Enter the value of price");  
    price = obj.nextFloat();  
    String str="insert into product values("+pid+", '"+pname+"', "+price+"");  
    stm.executeUpdate(str);  
    System.out.println("Table is Created...!");  
}  
catch(Exception e) {  
    System.out.println(e);  
}  
}
```

```
}
```

Output:

Enter the value of pid

101

Enter the value of pname

Python

Enter the value of price

500

Table is Created...!

Output:

```
mysql> select * from product;
```

```
+-----+-----+-----+
| pid | pname  | price |
+-----+-----+-----+
| 101 | Python | 500   |
+-----+-----+-----+
```

1 row in set (0.157 sec)

```
mysql> insert into product values(102,"Java","700");
```

Query OK, 1 row affected (0.211 sec)

```
mysql> insert into product values(103,"Operating System","800");
```

Query OK, 1 row affected (0.196 sec)

```
mysql> select * from product;
```

```
+-----+-----+-----+
```

pid	pname	price
101	Python	500
102	Java	700
103	Operating System	800

3 rows in set (0.012 sec)