

Customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone)

```
book(ISBN,title,unit_price,author_no,publisher_no,pub_year);
```

`publisher(publisher_no,publisher_name,publisher_addr,year);`

Create view, index, sequence and synonym based on above tables.

```
public class Assignment2 {
```

```
String url = "jdbc:mysql://10.10.13.31:3306/";
```

```
String driver = "com.mysql.jdbc.Driver";
```

```
String password = "t31255";
```

```
Scanner in = new Scanner(System.in);
```

```
Connection conn = DriverManager.getConnection(url+dbName,
```

```
Statement st = conn.createStatement();
```

```
String n = null;
```

{

```
System.out.print("Enter your choice: \n1.Create
```

Create index\n4.Show i

```
exit\n");
```

```
int c = i
```

S

{

case 1:

```
System.out.print("Enter name: ");
```

```
n = in.next();
```

```
st.executeUpdate("create or replace
```

```
om student2;" );
```

System

b

2:

```
if (n == null)
```

```
System.out.println("Create view first");
```

else

{

```
rs = st.executeQuery("select * from "+n+";");
```

```
while(rs.next())
```

{

```
System.out.println("Name:
```

```

"+rs.getString(1));
"+rs.getInt(2));
"+rs.getInt(3));
"+rs.getFloat(4));

        System.out.println("Roll number:");
        System.out.println("Age:");
        System.out.println("Math:");
        System.out.println();
    }
}
break;
case 3:
    st.executeUpdate("create unique index i1 on
student2(name);");
    st.executeUpdate("create index i2 on
student2(mathM);");
    st.executeUpdate("create index i3 on student2(roll,
age);");
    System.out.println("Indices created");
    break;
case 4:
    rs = st.executeQuery("show index from
t3l255db.student2;");
    while(rs.next())
    {
        System.out.println("Table:
"+rs.getString("Table")+ "\nKey Name: "+rs.getString("Key_name")+ "\nIndex type:
"+rs.getString("Index_type"));
        System.out.println();
    }
    break;
case 5:
    st.executeUpdate("create table table1(roll int
primary key auto_increment, name varchar(20));");
    System.out.println("Table with auto increment
created");
    st.executeUpdate("insert into table1(name)
values('Ridhwik');");
    st.executeUpdate("insert into table1(name)
values('Ritesh');");
    break;
case 6:
    st.executeUpdate("drop view if exists "+n+";");
    System.out.println("View dropped");
    break;
case 7:
    st.executeUpdate("alter table student2 drop index
i1;");
    st.executeUpdate("alter table student2 drop index
i2;");
    st.executeUpdate("alter table student2 drop index
i3;");
    System.out.println("Indices dropped");
    break;
case 8:
    System.exit(0);
    break;
}

```

```

        }
    }
    catch (Exception e)
    {
        e.printStackTrace();
    }
}
}

```

OUTPUT

Enter your choice:

- 1.Create view
- 2.Select view
- 3.Create index
- 4.Show index
- 5.Create sequence
- 6.Drop view
- 7.Drop index
- 8.Exit

1

Enter name: abcde

View created

Enter your choice:

- 1.Create view
- 2.Select view
- 3.Create index
- 4.Show index
- 5.Create sequence
- 6.Drop view
- 7.Drop index
- 8.Exit

2

Name: Ridhwik

Roll number: 31255

Age: 19

Math: 99.0

Name: Ritesh

Roll number: 31256

Age: 20

Math: 90.0

Name: Ketaki

Roll number: 34

Age: 26

Math: 70.0

Name: Raj

Roll number: 31253

Age: 20

Math: 97.0

Name: a

Roll number: 2
Age: 2
Math: 2.0

Enter your choice:

- 1.Create view
- 2.Select view
- 3.Create index
- 4.Show index
- 5.Create sequence
- 6.Drop view
- 7.Drop index
- 8.Exit

3

Indices created

Enter your choice:

- 1.Create view
- 2.Select view
- 3.Create index
- 4.Show index
- 5.Create sequence
- 6.Drop view
- 7.Drop index
- 8.Exit

4

Table: student2

Key Name: i1

Index type: BTREE

Table: student2

Key Name: i2

Index type: BTREE

Table: student2

Key Name: i3

Index type: BTREE

Table: student2

Key Name: i3

Index type: BTREE

Enter your choice:

- 1.Create view
- 2.Select view
- 3.Create index
- 4.Show index
- 5.Create sequence
- 6.Drop view
- 7.Drop index
- 8.Exit

5

Table with auto increment created

Enter your choice:

- 1.Create view
- 2.Select view
- 3.Create index
- 4.Show index
- 5.Create sequence

6.Drop view
7.Drop index
8.Exit

6

View dropped
Enter your choice:
1.Create view
2.Select view
3.Create index
4.Show index
5.Create sequence
6.Drop view
7.Drop index
8.Exit

7

Indices dropped
Enter your choice:
1.Create view
2.Select view
3.Create index
4.Show index
5.Create sequence
6.Drop view
7.Drop index
8.Exit

8