*Dt : 7/1/2025(Day-8)*

*faq:*

*wt is the internal execution behaviour of executeQuery() method?*

  *=>This executeQuery()-method internally creates implementation object for*

   *ResultSet-Interface,and this ResultSet-Interface-Object will hold the result generated*

   *from select-query.*

  *=>This executeQuery()-method also generate one cursor pointing before the first-row.*

  *=>we move the cursor in forward direction using 'next()' method and which is boolean*

   *return_type.*

  *syntax:*

  *ResultSet rs = stm.executeQuery("select-query");*

 *---------------------------------------------------------------------------*

*Ex-2:(Construct JDBC Application to perform the following Operations on Customer-table)*

   *1.AddCustomer*

   *2.ViewAllCustomers*

   *3.ViewCustomerBasedOnId*

*Program : DBCon2.java*

```
package test;
import java.util.*;
import java.sql.*;
public class DBCon2
{
     public static void main(String[] args)
     {
         Scanner s = new Scanner(System.in);
         try(s;){
             Class.forName("oracle.jdbc.driver.OracleDriver");
             Connection con = DriverManager.getConnection

("jdbc:oracle:thin:@localhost:1521:xe","system","tiger");
             Statement stm = con.createStatement();
```

```java
while(true) {
    System.out.println("******Operations Choice*****");
    System.out.println("\t1.AddCustomer"
            + "\n\t2.ViewAllCustomers"
            + "\n\t3.ViewCustomerById"
            + "\n\t4.Exit");
    System.out.println("Enter your choice:");
    int choice = Integer.parseInt(s.nextLine());
    switch(choice)
    {
    case 1:
            System.out.println("--------Cutomer Details---------");

            System.out.println("Enter the Cust-Id:");
            int id = Integer.parseInt(s.nextLine());
            System.out.println("Enter the Cust-Name:");
            String name = s.nextLine();
            System.out.println("Enter the Cust-City:");
            String city = s.nextLine();
            System.out.println("Enter the Cust-MailId:");
            String mId = s.nextLine();
            System.out.println("Enter the Cust-PhNo:");
            long phNo = Long.parseLong(s.nextLine());

            int k = stm.executeUpdate
            ("insert into Customer70 values("+id+",'"+name+"','"+city+"','"+mId+"',"+phNo+")");
            if(k>0) {
                    System.out.println("Custome Added Successfully...");
            }
            break;
    case 2:
            ResultSet rs1 = stm.executeQuery("select * from Customer70");
            System.out.println("------Customer Details-----");
            while(rs1.next()) {
                    System.out.println(rs1.getInt(1)+"\t"
                            +rs1.getString(2)+"\t"
                            +rs1.getString(3)+"\t"
                            +rs1.getString(4)+"\t"
                            +rs1.getLong(5));
            }//end of loop
            break;
    case 3:
            System.out.println("Enter the Cust-Id to display the details...");

            int cId = Integer.parseInt(s.nextLine());
            ResultSet rs2 = stm.executeQuery
```

```java
                                    ("select * from Customer70 where
id="+cId+"");
                        if(rs2.next()) {
                                System.out.println(rs2.getInt(1)+"\t"
                                        +rs2.getString(2)+"\t"
                                        +rs2.getString(3)+"\t"
                                        +rs2.getString(4)+"\t"
                                        +rs2.getLong(5));
                        }else {
                                System.out.println("Invalid Customer Id....");
                        }
                        break;
                case 4:
                        System.out.println("Operations Stopped....");
                        System.exit(0);
                default:
                        System.out.println("Invalid Choice...");
                }//end of switch
            }//end of loop
        }catch(SQLIntegrityConstraintViolationException sq) {
            System.out.println("Customer details already available...");
        }catch(Exception e) {
            e.printStackTrace();
        }
    }
}
```

o/p:

******Operations Choice*****

    1.AddCustomer

    2.ViewAllCustomers

    3.ViewCustomerById

    4.Exit

Enter your choice:

2

------Customer Details-----

1234    Alex    Hyd    alex@gmail.com        9898981234

2312    Ram    Hyd    ram@gmail.com        7676761234

3212   Raj     Hyd     raj@gmail.com 4343431234

5454   DERE    Hyd     d@gmail.com   565656123

******Operations Choice*****

        1.AddCustomer

        2.ViewAllCustomers

        3.ViewCustomerById

        4.Exit

Enter your choice:

3

Enter the Cust-Id to display the details...

3212

3212   Raj     Hyd     raj@gmail.com 4343431234

******Operations Choice*****

        1.AddCustomer

        2.ViewAllCustomers

        3.ViewCustomerById

        4.Exit

Enter your choice:

2

------Customer Details-----

1234   Alex    Hyd     alex@gmail.com        9898981234

2312   Ram     Hyd     ram@gmail.com         7676761234

3212   Raj     Hyd     raj@gmail.com 4343431234

5454   DERE    Hyd     d@gmail.com   565656123

******Operations Choice*****

*1.AddCustomer*

*2.ViewAllCustomers*

*3.ViewCustomerById*

*4.Exit*

*Enter your choice:*

*3*

*Enter the Cust-Id to display the details...*

*5412*

*Invalid Customer Id....*

*******Operations Choice*****

*1.AddCustomer*

*2.ViewAllCustomers*

*3.ViewCustomerById*

*4.Exit*

*Enter your choice:*

*1*

*--------Cutomer Details---------*

*Enter the Cust-Id:*

*6712*

*Enter the Cust-Name:*

*TREW*

*Enter the Cust-City:*

*Hyd*

*Enter the Cust-MailId:*

*c@gmail.com*

*Enter the Cust-PhNo:*

*676767123*

*Custome Added Successfully...*

*******Operations Choice*****

    *1.AddCustomer*

    *2.ViewAllCustomers*

    *3.ViewCustomerById*

    *4.Exit*

*Enter your choice:*

*2*

*------Customer Details-----*

| | | | | |
|---|---|---|---|---|
| *1234* | *Alex* | *Hyd* | *alex@gmail.com* | *9898981234* |
| *2312* | *Ram* | *Hyd* | *ram@gmail.com* | *7676761234* |
| *3212* | *Raj* | *Hyd* | *raj@gmail.com* | *4343431234* |
| *5454* | *DERE* | *Hyd* | *d@gmail.com* | *565656123* |
| *6712* | *TREW* | *Hyd* | *c@gmail.com* | *676767123* |

*******Operations Choice*****

    *1.AddCustomer*

    *2.ViewAllCustomers*

    *3.ViewCustomerById*

    *4.Exit*

*Enter your choice:*

*4*

*Operations Stopped....*

*--------------------------------------------------------------------*

*Assignment-2:*

*Construct JDBC Application to perform the following operations on Product table*

*1.AddProduct*

*2.ViewAllProducts*

*3.ViewProductByCode*

*Assignment-3:*

*step-1 : Create table with name Employee70*

*(eid,ename,edesg,bsal,hra,da,totsal)*

*primary key : eid*

*step-2 : Construct JDBC Application to perform the following operations on Employee table*

*1.AddEmployee*

*2.ViewAllEmployees*

*3.ViewEmployeeById*

*hra = 96% of bSal*

*da  = 61% of bsal*

*totSal = bSal+hra+da;*

*Console Input : eId,eName,eDesg,bSal*

*Exception Condition : raise exception when bSal is less than 12000.*

========================================================================