

QUESTION-1

SIMPLE CALCULATOR			
NUMBER1	<input type="text" value="10.5"/>	<input type="button" value="+"/>	<input type="button" value="-"/>
NUMBER2	<input type="text" value="21"/>	<input type="button" value="*"/>	<input type="button" value="/"/>
RESULT	<input type="text" value="31.5"/>	<input type="button" value="C"/>	<input type="button" value="Off"/>

SIMPLE CALCULATOR			
NUMBER1	<input type="text" value="10.5"/>	<input type="button" value="+"/>	<input type="button" value="-"/>
NUMBER2	<input type="text" value="21"/>	<input type="button" value="*"/>	<input type="button" value="/"/>
RESULT	<input type="text" value="10.5"/>	<input type="button" value="C"/>	<input type="button" value="Off"/>



—

□

×

SIMPLE CALCULATOR

NUMBER1

10.5

+

-

NUMBER2

21

*

/

RESULT

220.5

C

Off

—

□

×

SIMPLE CALCULATOR

NUMBER1

10.5

+

-

NUMBER2

21

*

/

RESULT

0.5

C

Off



```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    double n1,n2,n3;  
    n1=Double.parseDouble(T1.getText());  
    n2=Double.parseDouble(T2.getText());  
    n3=n1+n2;  
    T3.setText(Double.toString(n3));  
  
}
```



```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    double n1,n2,n3;  
n1=Double.parseDouble(T1.getText());  
n2=Double.parseDouble(T2.getText());  
n3=n2-n1;  
T3.setText(Double.toString(n3));  
  
}
```

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    double n1,n2,n3;  
n1=Double.parseDouble(T1.getText());  
n2=Double.parseDouble(T2.getText());  
n3=n1*n2;  
T3.setText(Double.toString(n3));  
  
}
```

```
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {  
    double n1,n2,n3;  
n1=Double.parseDouble(T1.getText());  
n2=Double.parseDouble(T2.getText());  
n3=n1/n2;  
T3.setText(Double.toString(n3));  
  
}
```

```
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {  
    T1.setText("");  
    T2.setText("");  
    T3.setText("");  
}
```



```
}
```

```
private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {  
    System.exit(0);  
}
```

QUESTION-2

COMPOUND INTEREST CALCULATOR

PRINCIPAL AMMOUNT	<input type="text" value="1000"/>	<input type="button" value="CALCULATE"/> <input type="button" value="CLEAR"/> <input type="button" value="CLOSE"/>
INTEREST RATE	<input type="text" value="10"/>	
TIME	<input type="text" value="2"/>	
TOTAL AMMOUNT	<input type="text" value="1200.0"/>	
INTEREST AMMOUNT	<input type="text" value="2200.0"/>	

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    Double x,y,z,i,n;  
    x=Double.parseDouble(t1.getText());  
    y=Double.parseDouble(t2.getText());  
    z=Double.parseDouble(t3.getText());  
    n=x*(1+y/100)*z;  
    i=n-x;  
    t4.setText(Double.toString(i));  
    t5.setText(Double.toString(n));  
}
```



```
}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    t1.setText("");  
    t2.setText("");  
    t3.setText("");  
    t4.setText("");  
    t5.setText("");  
}
```

QUESTION-3

QUICK FOX TRANSPORT.CO

From(city)	<input type="text" value="AMBALA"/>	<input type="button" value="CALCULATE"/>
To(city)	<input type="text" value="RANCHI"/>	
Weight(kg)	<input type="text" value="800"/>	<input type="button" value="EXIT"/>
Distance(km)	<input type="text" value="1200"/>	
AMOUNT	<input type="text" value="6000.0"/>	

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
```



```
Double x,y,z = null;

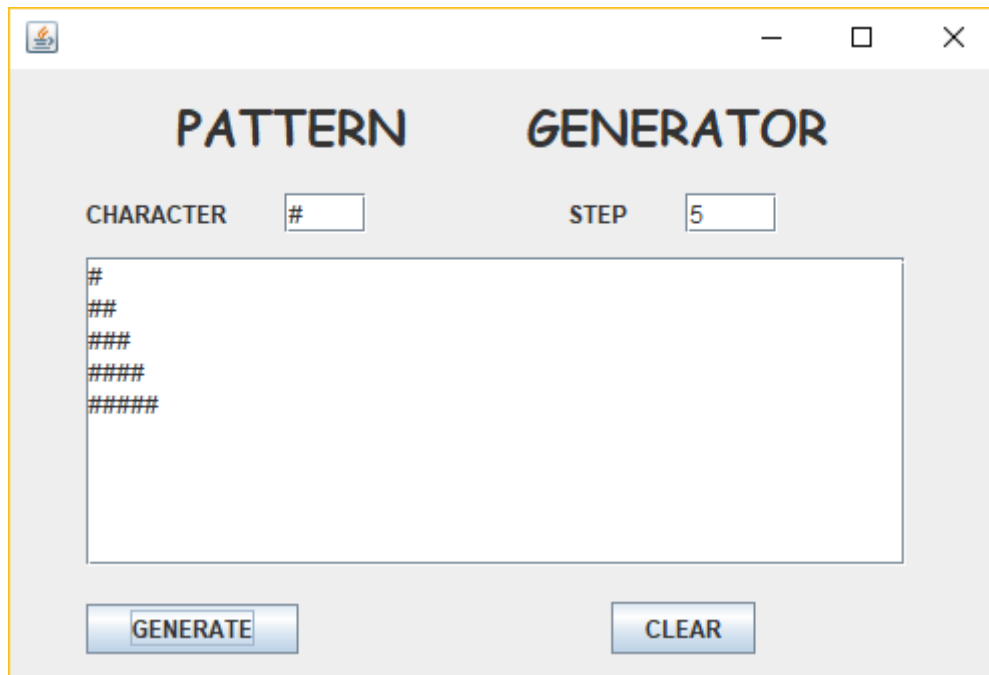
x=Double.parseDouble(t3.getText());
y=Double.parseDouble(t4.getText());


    if(y>=500)
    {if(x>=100)
    {z=5*y;}
    else if(x>10 && x<100)
    {z=y*6;}
    else
    {z=7*y;}}
    else if(y<500)
    {if(x>100)
    {z=8*y;}
    else
    {z=5*y;}}
    t5.setText(Double.toString(z));

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
System.exit(0);
}
```

QUESTION-4



```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
```

```
    String ch=t1.getText();
```

```
    int st=Integer.parseInt(t2.getText());
```

```
    for(int i=1;i<=st;i++)
```

```
    {
```

```
        for(int j=1;j<=i;j++)
```

```
        {
```

```
            ta1.append(ch);
```

```
        }
```

```
        ta1.append("\n");
```

```
    }
```

```
}
```




```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    t1.setText("");  
    t2.setText("");  
    ta1.setText("");  
}
```

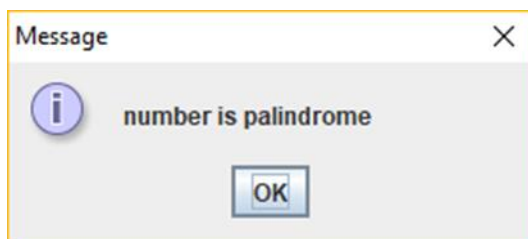
QUESTION-5

PALIDROME NUMBER

ENTER NUMBER

SUM OF DIGIT S

REVERSE



```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    int num, rem, sum=0;  
    num=Integer.parseInt(t1.getText());  
    do
```



```
{
    rem=num%10;
    sum=sum+rem;
    num=num/10;}
while(num!=0);
t2.setText(Integer.toString(sum));

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    int num, rem, rev=0;
    num=Integer.parseInt(t1.getText());
    rem=num;
    while(rem>0)
    {
        rev=(rev*10)+(rem%10);
        rem=rem/10;
    }
    t3.setText(Integer.toString(rev));
}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    int num, rem, rev=0;
    num=Integer.parseInt(t1.getText());
    rem=num;
    while(rem>0)
    {
        rev=(rev*10)+(rem%10);
        rem=rem/10;
    }
}
```



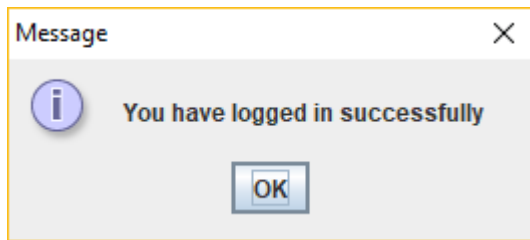
```
t3.setText(Integer.toString(rev));  
  
if(num==rev)  
{  
    JOptionPane.showMessageDialog(this,"number is palindrome");  
}  
else  
{  
    JOptionPane.showMessageDialog(this,"number is not palindrome");  
}  
}
```

QUESTION-14

LOGIN

User ID:

Password:




```
String pwd= new String(jPasswordField1.getPassword());
```

```
{  
    JOptionPane.showMessageDialog(this,"You have logged in successfully");  
}  
  
}  
  
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    t1.setText("");  
    jPasswordField1.setText("");  
}
```

QUESTION-15



—□×

RECTANGLE CALCULATION

LENGTH(m)


BREATH(m)

RESULT:

AREA

PERIMETER

DIAGONAL

—□×

RECTANGLE CALCULATION

LENGTH(m)

BREATH(m)

RESULT:

AREA

PERIMETER

DIAGONAL



RECTANGLE CALCULATION

LENGTH(m)

BREADTH(m)

RESULT:

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    double l=Double.parseDouble(t1.getText());  
    double b=Double.parseDouble(t2.getText());  
    double a;  
    a=l*b;  
    t3.setText(Double.toString(a));  
  
}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    double l=Double.parseDouble(t1.getText());  
    double b=Double.parseDouble(t2.getText());  
    double p;  
    p=2*(l+b);  
    t3.setText(Double.toString(p));  
}
```



```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
    double l=Double.parseDouble(t1.getText());  
    double b=Double.parseDouble(t2.getText());  
    double d;  
    d=Math.sqrt(l*l+b*b);  
    t3.setText(Double.toString(d));  
}
```

QUESTION-16

STRING PALINDROME

ENTER STRING

REVERSE **PALINDROME**

REVERSE STRING

PALINDROME CHECK



STRING PALINDROME

ENTER STRING

REVERSE **PALINDROME**

REVERSE STRING

PALINDROME CHECK

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {  
    String str=TF.getText();  
    String strr="";  
    for(int n=str.length()-1;n>=0;n--)  
    {  
        strr=strr+str.charAt(n);  
    }  
    REVTF.setText(strr);  
}
```

```
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
```




```
String str=TF.getText() ;
String strr="";
for(int n=str.length()-1;n>=0;n--)
{
    strr=strr+str.charAt(n);
    if(strr.equals(str))
    {
        PTF.setText("this is a palindrome");
    }
    else
    {
        PTF.setText("this is not a palindrome");
    }
}
```

QUESTION-23



NAME	DESIGNATION	PAY	CITY
Amitabh	Manager	30000.00	Lucknow
Sanjay	Clerk	25000.00	Udaipur

FILTER PAY>=

```
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

DefaultTableModel model=(DefaultTableModel)
    jTable1.getModel();
    String f=t1.getText();

    try
    {
        Class.forName("java.sql.DriverManager");
        Connection con=(Connection)
```



```
        DriverManager.getConnection("jdbc:mysql://localhost:3306/myorg","root","123");

        Statement stmt=(Statement)con.createStatement();

        String query="select*from emp where pay>="+f+"";

        ResultSet rs=stmt.executeQuery(query);

        while(rs.next())

        {String name=rs.getString("name");

        String des=rs.getString("designation");

        String pay=rs.getString("pay");

        String city=rs.getString("city");

        model.addRow(new Object[]{name,des,pay,city});

        }

        }

        catch(Exception e){System.out.println(e.getMessage());

        }

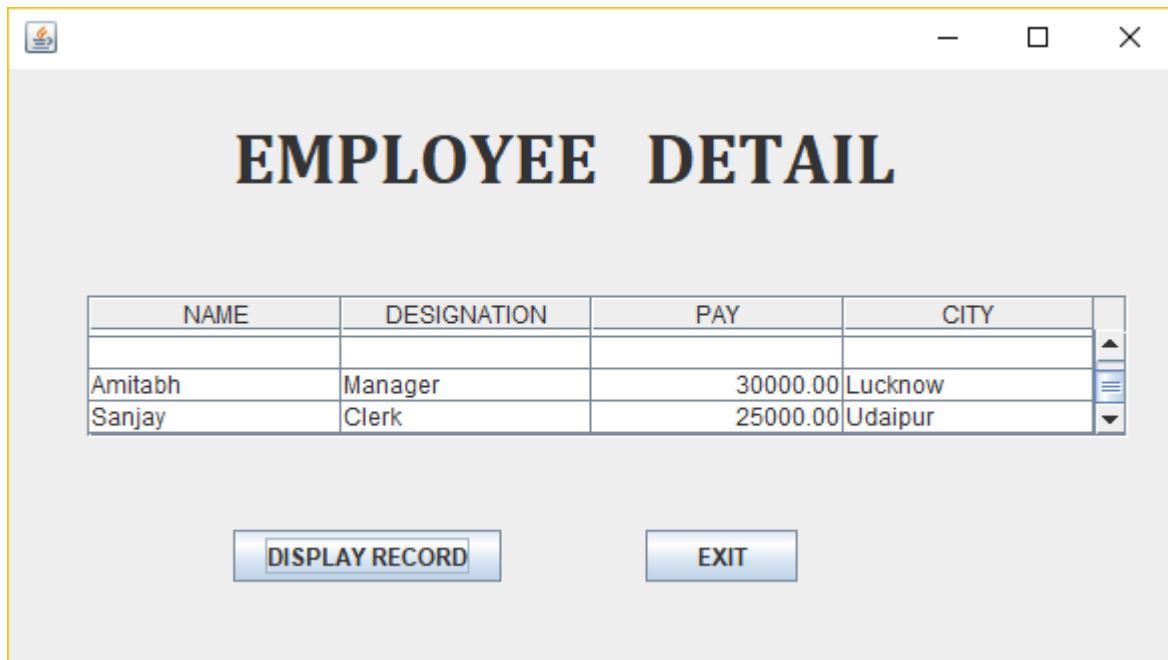
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

        System.exit(0);

    }
```

QUESTION -22



```
import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Statement;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.table.DefaultTableModel;

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    DefaultTableModel model=(DefaultTableModel)
    jTable1.getModel();

    try
    {
        Class.forName("java.sql.DriverManager");
        Connection con=(Connection)
            DriverManager.getConnection("jdbc:mysql://localhost:3306/myorg","root","123");
        Statement stmt=(Statement)con.createStatement();
        String query="select*from emp;";
        ResultSet rs=stmt.executeQuery(query);
        while(rs.next())
```



```
{String n=rs.getString("name");  
String d=rs.getString("designation");  
String p=rs.getString("pay");  
String c=rs.getString("city");  
model.addRow(new Object[] {n,d,p,c});  
  
}  
  
}  
  
catch(Exception e){System.out.println(e.getMessage());  
  
}  
  
}  
  
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {  
    System.exit(0);  
}
```

QUESTION-27

```
<HTML>  
<HEAD><TITLE>ADDMISSION ENQUIRY FORM</TITLE></HEAD>  
<BODY BGCOLOR="GREEN">  
<FONT FACE="AREIAL" SIZE=10>  
<CENTRE><H1>ADDMISSION ENQUIRY FORM</H1></CENTER>  
<FROM NAME="USEFORM" ACTION="admission@myschool.com" method="get">  
Name:<input type="text" name="t1"><br><br>  
Address:<input type="text" name="t2"><br><br>  
City:<input type="text" name="t3"><br><br>  
Qualification:<input type="checkbox" name="c1">10+2
```



```
<input type="checkbox" name="c2">Graduate
<input type="checkbox" name="c3">PG<br><br>
Course:<select>
<option value="l1">BBA</option>
<option value="l2">MBA</option>
<option value="l3">MCA</option></select><br><br>
Remark:<textarea rows=6 cols=50 name="comment" form="userform">
</textarea><br><br>
<input type="submit" name="s"><input type="reset" name="t">
</form></BODY></HTML>
```

QUESTION-28

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 21

Server version: 8.0.12 MySQL Community Server - GPL

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> select sysdate();
```

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

```
| sysdate()      |
```



+-----+

| 2018-09-01 15:25:00 |

+-----+

1 row in set (0.04 sec)

mysql> select monthname(curdate());

+-----+

| monthname(curdate()) |

+-----+

| September |

+-----+

1 row in set (0.12 sec)

mysql> select dayofweek('2015-05-24');

+-----+

| dayofweek('2015-05-24') |

+-----+

| 1 |

+-----+

1 row in set (0.07 sec)

mysql> select round(15.193,-1);

+-----+

| round(15.193,-1) |

+-----+

| 20 |

+-----+

1 row in set (0.09 sec)

mysql> select 7*9;

+-----+



| 7*9 |

+-----+

| 63 |

+-----+

1 row in set (0.00 sec)

Enter password: ****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 23

Server version: 8.0.12 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database myorg;

Query OK, 1 row affected (0.21 sec)

mysql> use myorg;

Database changed

mysql> create table emp(EmpID int(5) primary key,EmpName varchar(30),Designation char(10),DOJ
date,Sal int(9),Comm int(6));

Query OK, 0 rows affected (0.79 sec)



```
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
EmpID	int(5)	NO	PRI	NULL	
EmpName	varchar(30)	YES		NULL	
Designation	char(10)	YES		NULL	
DOJ	date	YES		NULL	
Sal	int(9)	YES		NULL	
Comm	int(6)	YES		NULL	

6 rows in set (0.07 sec)

```
mysql> insert into emp values(8369,'SMITH','CLERK','1990-12-18',800,NULL);
```

Query OK, 1 row affected (0.14 sec)

```
mysql> insert into emp values(8499,'ANYA','SALESMAN','1991-02-20',1600,300);
```

Query OK, 1 row affected (0.13 sec)

```
mysql> insert into emp values(8521,'SETH','SALESMAN','1991-02-22',1250,500);
```

Query OK, 1 row affected (0.12 sec)

```
mysql> insert into emp values(8566,'MAHADEVAN','MANAGER','1991-04-02',2985,NULL);
```

Query OK, 1 row affected (0.12 sec)

```
mysql> insert into emp values(8654,'MOMIN','SALESMAN','1991-09-28',1250,400);
```

Query OK, 1 row affected (0.15 sec)

```
mysql> insert into emp values(8698,'BINA','MANAGER','1991-05-01',2850,NULL);
```

Query OK, 1 row affected (0.17 sec)



```
mysql> insert into emp values(8882,'SHIVANSH','MANAGER','1991-06-09',2450,NULL);
```

```
Query OK, 1 row affected (0.18 sec)
```

```
mysql> insert into emp values(8888,'SCOTT','ANALYST','1991-12-09',3000,NULL);
```

```
Query OK, 1 row affected (0.17 sec)
```

```
mysql> insert into emp values(8839,'AMIR','PRESIDENT','1991-11-18',5000,NULL);
```

```
Query OK, 1 row affected (0.19 sec)
```

```
mysql> insert into emp values(8844,'KULDEEP','SALESMAN','1991-09-08',1500,0);
```

```
Query OK, 1 row affected (0.18 sec)
```

```
mysql> SELECT* FROM emp;
```

```
+-----+-----+-----+-----+-----+
| EmpID | EmpName | Designation | DOJ      | Sal | Comm |
+-----+-----+-----+-----+-----+
| 8369 | SMITH   | CLERK       | 1990-12-18 | 800 | NULL |
| 8499 | ANYA    | SALESMAN    | 1991-02-20 | 1600 | 300 |
| 8521 | SETH    | SALESMAN    | 1991-02-22 | 1250 | 500 |
| 8566 | MAHADEVAN | MANAGER    | 1991-04-02 | 2985 | NULL |
| 8654 | MOMIN   | SALESMAN    | 1991-09-28 | 1250 | 400 |
| 8698 | BINA    | MANAGER     | 1991-05-01 | 2850 | NULL |
| 8839 | AMIR    | PRESIDENT   | 1991-11-18 | 5000 | NULL |
| 8844 | KULDEEP | SALESMAN    | 1991-09-08 | 1500 | 0 |
| 8882 | SHIVANSH | MANAGER     | 1991-06-09 | 2450 | NULL |
| 8888 | SCOTT   | ANALYST     | 1991-12-09 | 3000 | NULL |
+-----+-----+-----+-----+-----+
```

```
10 rows in set (0.00 sec)
```

```
mysql> select EmpName,Sal from emp where sal>=2200;
```

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



EmpName	Sal
MAHADEVAN	2985
BINA	2850
AMIR	5000
SHIVANSH	2450
SCOTT	3000

5 rows in set (0.00 sec)

mysql> SELECT* FROM emp where comm is null or comm=0;

EmpID	EmpName	Designation	DOJ	Sal	Comm
8369	SMITH	CLERK	1990-12-18	800	NULL
8566	MAHADEVAN	MANAGER	1991-04-02	2985	NULL
8698	BINA	MANAGER	1991-05-01	2850	NULL
8839	AMIR	PRESIDENT	1991-11-18	5000	NULL
8844	KULDEEP	SALESMAN	1991-09-08	1500	0
8882	SHIVANSH	MANAGER	1991-06-09	2450	NULL
8888	SCOTT	ANALYST	1991-12-09	3000	NULL

7 rows in set (0.03 sec)

mysql> select empname,sal from emp where sal not between 2500 and 4000;

empname	sal
SMITH	800
ANYA	1600
SETH	1250



MOMIN	1250	
-------	------	--

AMIR	5000	
------	------	--

KULDEEP	1500	
---------	------	--

SHIVANSH	2450	
----------	------	--

+-----+-----+

7 rows in set (0.02 sec)

mysql> select empname from emp where empname like '___a%' order by empname;

+-----+

empname	
---------	--

+-----+

ANYA	
------	--

BINA	
------	--

MAHADEVAN	
-----------	--

+-----+

3 rows in set (0.00 sec)

mysql> select empname,sal*50/100 as 'DA'from emp;

+-----+-----+

empname	DA	
---------	----	--

+-----+-----+

SMITH	400.0000	
-------	----------	--

ANYA	800.0000	
------	----------	--

SETH	625.0000	
------	----------	--

MAHADEVAN	1492.5000	
-----------	-----------	--

MOMIN	625.0000	
-------	----------	--

BINA	1425.0000	
------	-----------	--



```
| AMIR      | 2500.0000 |
| KULDEEP   | 750.0000  |
| SHIVANSH  | 1225.0000 |
| SCOTT     | 1500.0000 |
```

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

10 rows in set (0.03 sec)

mysql> select*, "NOT GIVEN" from emp where comm is null;

```
+-----+-----+-----+-----+-----+-----+
| EmpID | EmpName | Designation | DOJ      | Sal | Comm | NOT GIVEN |
+-----+-----+-----+-----+-----+-----+
| 8369 | SMITH   | CLERK       | 1990-12-18 | 800 | NULL | NOT GIVEN |
| 8566 | MAHADEVAN | MANAGER    | 1991-04-02 | 2985 | NULL | NOT GIVEN |
| 8698 | BINA    | MANAGER     | 1991-05-01 | 2850 | NULL | NOT GIVEN |
| 8839 | AMIR    | PRESIDENT   | 1991-11-18 | 5000 | NULL | NOT GIVEN |
| 8882 | SHIVANSH | MANAGER     | 1991-06-09 | 2450 | NULL | NOT GIVEN |
| 8888 | SCOTT   | ANALYST     | 1991-12-09 | 3000 | NULL | NOT GIVEN |
```

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

6 rows in set (0.00 sec)

mysql> select distinct designation from emp;

```
+-----+
| designation |
+-----+
| CLERK       |
| SALESMAN    |
| MANAGER     |
| PRESIDENT   |
| ANALYST     |
```

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

5 rows in set (0.06 sec)



QUESTION-29

```
mysql> USE MYORG;
```

Database changed

```
mysql> CREATE TABLE DEPT(DEPTID INT(5),DEPTNAME VARCHAR(20),MGRID INT(5),LOCATION  
CHAR(40));
```

Query OK, 0 rows affected (0.61 sec)

```
mysql> INSERT INTO DEPT VALUES(10,'SALES',8566,'MUMBAI');
```

Query OK, 1 row affected (0.16 sec)

```
mysql> INSERT INTO DEPT VALUES(20,'PERSSONEL',8698,'DELHI');
```

Query OK, 1 row affected (0.18 sec)

```
mysql> INSERT INTO DEPT VALUES(30,'ACCOUNTS',8882,'DELHI');
```

Query OK, 1 row affected (0.10 sec)

```
mysql>INSERT INTO DEPT VALUES(30,'ACCOUNTS',8882,'DELHI');
```

Query OK, 1 row affected (0.19 sec)

```
mysql> ALTER TABLE EMP ADD DEPTID INT(5);
```

Query OK, 0 rows affected (0.60 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> DESC EMP;
```

Field	Type	Null	Key	Default	Extra
EmpID	int(5)	NO	PRI	NULL	



EmpName	varchar(30)	YES		NULL		
Designation	char(10)	YES		NULL		
DOJ	date	YES		NULL		
Sal	int(9)	YES		NULL		
comm	int(6)	YES		NULL		
DEPTID	int(5)	YES		NULL		

+-----+-----+-----+-----+-----+

7 rows in set (0.01 sec)

```
mysql> ALTER TABLE DEPT ADD PRIMARY KEY(DEPTID);
```

Query OK, 0 rows affected (1.30 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> ALTER TABLE EMP ADD FOREIGN KEY(DEPTID) REFERENCES DEPT(DEPTID);
```

Query OK, 10 rows affected (2.02 sec)

Records: 10 Duplicates: 0 Warnings: 0

```
mysql> UPDATE EMP SET DEPTID=10 WHERE EMPID=8566;
```

Query OK, 1 row affected (0.22 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE EMP SET DEPTID=20 WHERE EMPID=8698;
```

Query OK, 1 row affected (0.16 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE EMP SET DEPTID=30 WHERE EMPID=8882;
```

Query OK, 1 row affected (0.24 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE EMP SET DEPTID=40 WHERE EMPID=8839;
```

Query OK, 1 row affected (0.14 sec)



Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT*FROM EMP;
```

EmpID	EmpName	Designation	DOJ	Sal	comm	DEPTID
8369	SMITH	CLERK	1990-12-18	800	NULL	NULL
8499	ANYA	SALESMAN	1991-02-20	1600	300	NULL
8521	SETH	SALESMAN	1991-02-22	1250	500	NULL
8566	MAHADEVAN	MANAGER	1991-04-02	2985	NULL	10
8654	MOMIN	SALESMAN	1991-09-28	1250	400	NULL
8698	BINA	MANAGER	1991-05-01	2850	NULL	20
8839	AMIR	PRESIDENT	1991-11-18	5000	NULL	40
8844	KULDEEP	SALESMAN	1991-09-08	500	0	NULL
8882	SHIVANSH	MANAGER	1991-06-09	2450	NULL	30
8888	SCOTT	ANALYST	1991-12-09	3000	NULL	NULL

10 rows in set (0.00 sec)

```
mysql> SELECT MIN(SAL),MAX(SAL),AVG(SAL) FROM EMP WHERE DESIGNATION="MANAGER";
```

MIN(SAL)	MAX(SAL)	AVG(SAL)
2450	2985	2761.6667

1 row in set (0.13 sec)

```
mysql> SELECT COUNT(*) FROM EMP WHERE DESIGNATION="CLERK";
```

COUNT(*)
1



```
| 1 |
```

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

1 row in set (0.00 sec)

```
mysql> SELECT EMPNAME,SAL,DOJ,DESIGNATION FROM EMP ORDER BY DESIGNATION;
```

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

```
| EMPNAME | SAL | DOJ | DESIGNATION |
```

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

```
| SCOTT | 3000 | 1991-12-09 | ANALYST |
```

```
| SMITH | 800 | 1990-12-18 | CLERK |
```

```
| MAHADEVAN | 2985 | 1991-04-02 | MANAGER |
```

```
| BINA | 2850 | 1991-05-01 | MANAGER |
```

```
| SHIVANSH | 2450 | 1991-06-09 | MANAGER |
```

```
| AMIR | 5000 | 1991-11-18 | PRESIDENT |
```

```
| ANYA | 1600 | 1991-02-20 | SALESMAN |
```

```
| SETH | 1250 | 1991-02-22 | SALESMAN |
```

```
| MOMIN | 1250 | 1991-09-28 | SALESMAN |
```

```
| KULDEEP | 500 | 1991-09-08 | SALESMAN |
```

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

10 rows in set (0.00 sec)

```
mysql> SELECT COUNT(*) FROM EMP WHERE COMM IS NULL OR COMM=0;
```

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

```
| COUNT(*) |
```

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

```
| 7 |
```

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

1 row in set (0.00 sec)

```
mysql> SELECT AVG(SAL) FROM EMP HAVING COUNT(DISTINCT(DESIGNATION))>5;
```

Empty set (0.04 sec)



```
mysql> SELECT COUNT(*) FROM EMP GROUP BY DEPTID;
```

```
+-----+
| COUNT(*) |
+-----+
|    6    |
|    1    |
|    1    |
|    1    |
|    1    |
+-----+
```

5 rows in set (0.04 sec)

```
mysql> SELECT MAX(SAL),DEPTNAME FROM EMP,DEPT WHERE EMPID=MGRID GROUP BY
DEPTNAME;
```

```
+-----+-----+
| MAX(SAL) | DEPTNAME |
+-----+-----+
|  2985    | SALES    |
|  2850    | PERSSONEL |
|  2450    | ACCOUNTS |
|  5000    | RESEARCH |
+-----+-----+
```

4 rows in set (0.16 sec)

```
mysql> SELECT EMPNAME,DESIGNATION,DEPTNAME FROM EMP,DEPT WHERE
DEPT.DEPTID=EMP.DEPTID;
```

```
+-----+-----+-----+
| EMPNAME | DESIGNATION | DEPTNAME |
+-----+-----+-----+
| MAHADEVAN | MANAGER    | SALES    |
| BINA      | MANAGER    | PERSSONEL |
```



SHIVANSH	MANAGER	ACCOUNTS	
----------	---------	----------	--

AMIR	PRESIDENT	RESEARCH	
------	-----------	----------	--

+-----+	+-----+	+-----+	
---------	---------	---------	--

4 rows in set (0.00 sec)

```
mysql> SELECT COUNT(*) FROM EMP,DEPT WHERE DEPT.DEPTID=EMP.DEPTID AND
DEPTNAME='ACCOUNTS';
```

+-----+

COUNT(*)	
----------	--

+-----+

1	
---	--

+-----+

1 row in set (0.00 sec)

```
mysql> SELECT EMPNAME FROM EMP,DEPT WHERE DEPT.DEPTID=EMP.DEPTID AND
LOCATION='DELHI';
```

+-----+

EMPNAME	
---------	--

+-----+

BINA	
------	--

SHIVANSH	
----------	--

+-----+

2 rows in set (0.00 sec)

```
mysql> SELECT EMPNAME FROM EMP,DEPT WHERE DEPT.DEPTID=EMP.DEPTID AND
DEPTNAME='SALES';
```

+-----+

EMPNAME	
---------	--

+-----+

MAHADEVAN	
-----------	--

+-----+

1 row in set (0.00 sec)

```
mysql> SELECT EMPNAME FROM EMP,DEPT WHERE DEPT.DEPTID=EMP.DEPTID AND  
LOCATION='DELHI'AND SAL>5000;
```

Empty set (0.00 sec)

```
mysql> SELECT * FROM EMP,DEPT WHERE DEPT.DEPTID=EMP.DEPTID AND DEPTNAME='RESEARCH';
```

```

+-----+-----+-----+-----+-----+-----+-----+-----+
| EmpID | EmpName | Designation | DOJ      | Sal | comm | DEPTID | DEPTID | DEPTNAME | |
| MGRID | LOCATION |              |          |     |      |        |        |          | |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 8839 | AMIR    | PRESIDENT   | 1991-11-18 | 5000 | NULL | 40     | 40     | RESEARCH | 8839 |
| BANGLORE |              |              |          |     |      |        |        |          |      |
+-----+-----+-----+-----+-----+-----+-----+-----+

```

1 row in set (0.00 sec)