SQL ASSIGNMENT – 2

CREATE TABLE employeeData(

empId INT PRIMARY KEY NOT NULL,

Emp\_Fname VARCHAR(10),

Emp\_Lname VARCHAR(10),

Sal INT(1000),

Dat date,

dept varchar(10)

);

INSERT INTO employeeData(empId,Emp\_Fname,Emp\_Lname,Sal,Dat,dept)

VALUES

(1, 'Madhuri', 'Sripada', 100000, '19-02-01 09.00.00','HR'),

(2, 'Haritha', 'Verma', 80000, '19-01-10 09.00.00','Admin'),

(3, 'Vimal', 'Rao', 300000, '19-03-10 09.00.00', 'HR'),

(4, 'Amrita', 'Prasad', 500000, '19-03-10 09.00.00','Admin'),

(5, 'Vidhi', 'Agarwal', 500000, '19-02-11 09.00.00','Admin'),

(6, 'Nitya', 'Prasad', 200000, '19-02-11 09.00.00','Account'),

(7, 'Sravan', 'Kumar', 75000, '19-04-20 09.00.00','Account'),

(8, 'Girish', 'Varma', 90000, '19-04-11 09.00.00','Admin');

CREATE TABLE IncentiveData(

eid INT(10) NOT NULL,

iamount INT(10),

idate date,

FOREIGN KEY (eid) REFERENCES employeeData(empId)

);

INSERT INTO IncentiveData

(eid,iamount,idate)

VALUES

(1, 8000, '19-06-15'),

(2, 10000, '19-05-11'),

(3, 45000, '19-05-20'),

(1, 9500, '19-06-20'),

(2, 3500, '19-06-11');

CREATE TABLE JobRoles(

jid INT(10) NOT NULL,

role VARCHAR(10),

jdate date,

FOREIGN KEY (jid) REFERENCES employeeData(empId)

);

INSERT INTO JobRoles

(jid,role,jdate)

VALUES

(1, 'Manager', '2019-02-01 00:00:00'),

(2, 'Executive', '2019-06-01 00:00:00'),

(8, 'Executive', '2019-06-01 00:00:00'),

(5, 'Manager', '2019-06-01 00:00:00'),

(4, 'Asst. Manager', '2019-06-01 00:00:00'),

(7, 'Executive', '2019-06-01 00:00:00'),

(6, 'Team Lead', '2019-06-01 00:00:00'),

(3, 'Team Lead', '2019-06-01 00:00:00');

Write SQL queries for the following questions using the above data. (Please provide the outputs also)

1. **Display last name as employee\_last\_name.**

Ans:

SELECT Emp\_Lname as employee\_last\_name FROM employeeData;

Output:

**employee\_last\_name**

Sripada

Verma

Rao

Prasad

Agarwal

Prasad

Kumar

Varma

1. **Display fname and lname as employee\_fullname.**

Ans:

SELECT CONCAT(Emp\_Fname , " ",Emp\_Lname) as employee\_fullname FROM employeeData;

Output:

employee\_fullname

Madhuri Sripada

Haritha Verma

Vimal Rao

Amrita Prasad

Vidhi Agarwal

Nitya Prasad

Sravan Kumar

Girish Varma

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1. **Display unique dept from emp table.**

Ans:

SELECT DISTINCT dept FROM employeeData;

Output:

HR

Admin

Account

1. **Display fname, lname in upper case.**

Ans:

SELECT upper(Emp\_Fname),upper(Emp\_Lname) FROM employeeData;

Output:

MADHURI|SRIPADA

HARITHA|VERMA

VIMAL|RAO

AMRITA|PRASAD

VIDHI|AGARWAL

NITYA|PRASAD

SRAVAN|KUMAR

GIRISH|VARMA

1. **Display emp fname in asc order.**

Ans:

SELECT Emp\_Fname FROM employeeData order by Emp\_Fname asc;

**Output:**

Amrita

Girish

Haritha

Madhuri

Nitya

Sravan

Vidhi

Vimal

1. **Print details of employees 'amrita' and 'nitya'.**

Ans:

SELECT \* FROM employeeData where lower(Emp\_Fname)=='amrita' or lower(Emp\_Fname)=='nitya';

Output:

4|Amrita|Prasad|500000|19-03-10 09.00.00|Admin

6|Nitya|Prasad|200000|19-02-11 09.00.00|Account

1. **Details of emps except 'girish' and 'sravan'.**

Ans:

SELECT \* FROM employeeData where (lower(Emp\_Fname) not like 'girish') and (lower(Emp\_Fname) not like 'sravan');

Output:

1|Madhuri|Sripada|100000|19-02-01 09.00.00|HR

2|Haritha|Verma|80000|19-01-10 09.00.00|Admin

3|Vimal|Rao|300000|19-03-10 09.00.00|HR

4|Amrita|Prasad|500000|19-03-10 09.00.00|Admin

5|Vidhi|Agarwal|500000|19-02-11 09.00.00|Admin

6|Nitya|Prasad|200000|19-02-11 09.00.00|Account

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1. **Display emps from hr dept.**

Ans:

SELECT \* FROM employeeData where dept='HR' ;

Output:

1|Madhuri|Sripada|100000|19-02-01 09.00.00|HR

3|Vimal|Rao|300000|19-03-10 09.00.00|HR

1. **Details of emps whose name starts with 'A'.**

Ans🡪

SELECT \* FROM employeeData where Emp\_Fname like 'A%';

Output:

4|Amrita|Prasad|500000|19-03-10 09.00.00|Admin

1. **Details of emps whose name contains 'A'.**

Ans:

SELECT \* FROM employeeData where Emp\_Fname like '%A%';

Output:

1|Madhuri|Sripada|100000|19-02-01 09.00.00|HR

2|Haritha|Verma|80000|19-01-10 09.00.00|Admin

3|Vimal|Rao|300000|19-03-10 09.00.00|HR

4|Amrita|Prasad|500000|19-03-10 09.00.00|Admin

6|Nitya|Prasad|200000|19-02-11 09.00.00|Account

7|Sravan|Kumar|75000|19-04-20 09.00.00|Account

11**. emp details of salaries who are earning between 2.5 – 5 lacs.**

Ans🡪

SELECT \* FROM employeeData where Sal between 250000 and 500000;

Output:

3|Vimal|Rao|300000|19-03-10 09.00.00|HR

4|Amrita|Prasad|500000|19-03-10 09.00.00|Admin

5|Vidhi|Agarwal|500000|19-02-11 09.00.00|Admin

1. **Write a query to display employee fullname who are earing above between 70,000 and below 2 lacs.**

Ans🡪

SELECT CONCAT(Emp\_Fname , " ",Emp\_Lname) as employee\_fullname,Sal from employeeData where Sal between 70000 and 200000;

Output:

**employee\_fullname Sal**

Madhuri Sripada 100000

Haritha Verma 80000

Nitya Prasad 200000

Sravan Kumar 75000

Girish Varma 90000

**13. Write a query to display to get dept name and number of**

**employees in dept.**

Ans-🡪

SELECT distinct dept,count(empId) from employeeData

group by dept;

output:

Account|2

Admin|4

HR|2

1. **To display employees who are managers.**

SELECT a.\*,b.role from employeeData a,JobRoles b where a.empId=b.jid and b.role='Manager'

Output:

1|Madhuri|Sripada|100000|19-02-01 09.00.00|HR|Manager

5|Vidhi|Agarwal|500000|19-02-11 09.00.00|Admin|Manager

1. **Print details of employees who got incentives.**

SELECT a.Emp\_Fname,a.Emp\_Lname,b.iamount,b.idate from employeeData a,IncentiveData b where a.empId=b.eid;

Output:

Madhuri|Sripada|8000|19-06-15

Haritha|Verma|10000|19-05-11

Vimal|Rao|45000|19-05-20

Madhuri|Sripada|9500|19-06-20

Haritha|Verma|3500|19-06-11

16. **Display max salary from each dept (department wise max salary).**

SELECT distinct dept,max(Sal) from employeeData group by dept;

Output:

Account|200000

Admin|500000

HR|300000

1. **Print emp name and dept name and bonus amount who got highest bonus.**

SELECT a.Emp\_Fname,a.Emp\_Lname,a.dept,max(b.iamount) from employeeData a,IncentiveData b where a.empId=b.eid

Output:

Vimal|Rao|HR|45000

1. **Display details of emp who is earing max salary.**

select \* from employeeData where Sal = (select max(Sal) from employeeData);

Output:

4|Amrita|Prasad|500000|19-03-10 09.00.00|Admin

5|Vidhi|Agarwal|500000|19-02-11 09.00.00|Admin

**19. Print emp last name , dept , salary of employees who is earing max salary in each department.**

SELECT dept,Emp\_Lname,Sal FROM employeeData

WHERE Sal IN

(SELECT max(Sal) as Salary

From employeeData

GROUP BY dept)

Output:

HR|Rao|300000

Admin|Prasad|500000

Admin|Agarwal|500000

Account|Prasad|200000

1. **Print emp details who is earning lowest salary.**

select \* from employeeData where Sal = (select min(Sal) from employeeData);

Output:

7|Sravan|Kumar|75000|19-04-20 09.00.00|Account

21**. Print the emp last name, job role and effective date for each employee.**

SELECT a.Emp\_Lname,b.role,b.jdate from employeeData a,JobRoles b where a.empId=b.jid

Output:

Sripada|Manager|2019-02-01 00:00:00

Verma|Executive|2019-06-01 00:00:00

Varma|Executive|2019-06-01 00:00:00

Agarwal|Manager|2019-06-01 00:00:00

Prasad|Asst. Manager|2019-06-01 00:00:00

Kumar|Executive|2019-06-01 00:00:00

Prasad|Team Lead|2019-06-01 00:00:00

Rao|Team Lead|2019-06-01 00:00:00

**22.Print emp lastname.**

SELECT Emp\_Lname from employeeData;

Output:

Sripada

Verma

Rao

Prasad

Agarwal

Prasad

Kumar

Varma

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