USE newTest;

CREATE TABLE Worker (

WORKER\_ID INT NOT NULL PRIMARY KEY ,

FIRST\_NAME varCHAR(25),

LAST\_NAME varCHAR(25),

SALARY INT,

JOINING\_DATE DATETIME,

DEPARTMENT varCHAR(25)

);

INSERT INTO Worker

(WORKER\_ID, FIRST\_NAME, LAST\_NAME, SALARY, JOINING\_DATE, DEPARTMENT) VALUES

(001, 'Monika', 'Arora', 100000, 14-02-20, 'HR'),

(002, 'Niharika', 'Verma', 80000, 14-06-11, 'Admin'),

(003, 'Vishal', 'Singhal', 300000, 14-02-20, 'HR'),

(004, 'Amitabh', 'Singh', 500000, 14-02-20, 'Admin'),

(005, 'Vivek', 'Bhati', 500000, 14-06-11, 'Admin'),

(006, 'Vipul', 'Diwan', 200000, 14-06-11, 'Account'),

(007, 'Satish', 'Kumar', 75000, 14-01-20, 'Account'),

(008, 'Geetika', 'Chauhan', 90000, 14-04-11, 'Admin'),

(009, 'Deepthi', 'Pradhan', 40000, 14-04-21, 'Admin'),

(010, 'Ranjana', 'Radhakrisnan', 50000, 14-04-21, 'HR'),

(011, 'Jyothi', 'Rao', 60000, 14-05-21, ' Account'),

(012, 'Vidya', 'Jain', 40000, 14-06-21, ' Account'),

(013, 'Rajan', 'Mishra', 200000, 14-02-21, 'HR'),

(014, 'Madhumita', 'Roy', 600000, 15-06-21, 'HR');

CREATE TABLE Bonus (

WORKER\_REF\_ID INT,

BONUS\_AMOUNT INT,

BONUS\_DATE DATETIME,

FOREIGN KEY (WORKER\_REF\_ID)

REFERENCES Worker(WORKER\_ID)

ON DELETE CASCADE

);

INSERT INTO Bonus

(WORKER\_REF\_ID, BONUS\_AMOUNT, BONUS\_DATE) VALUES

(001, 5000, 16-02-20),

(002, 3000, 16-06-11),

(003, 4000, 16-02-20),

(001, 4500, 16-02-20),

(012, 5500, 16-06-21),

(010, 3000, 16-07-21),

(008, 2500, 22-06-21),

(007, 3000, 11-05-15),

(005, 4000, 16-06-19);

CREATE TABLE Title (

WORKER\_REF\_ID INT,

WORKER\_TITLE VarCHAR(25),

AFFECTED\_FROM DATETIME,

FOREIGN KEY (WORKER\_REF\_ID)

REFERENCES Worker(WORKER\_ID)

ON DELETE CASCADE

);

INSERT INTO Title

(WORKER\_REF\_ID, WORKER\_TITLE, AFFECTED\_FROM) VALUES

(001, 'Manager', 2016-02-20),

(002, 'Executive', 2016-06-11),

(008, 'Executive', 2016-06-11),

(005, 'Manager', 2016-06-11),

(004, 'Asst. Manager', 2016-06-11),

(007, 'Executive', 2016-06-11),

(006, 'Lead', 2016-06-11),

(003, 'Lead', 2016-06-11),

(009, 'Executive', 2021-06-11),

(010, 'Lead', 2021-07-11 ),

(011, 'Executive', 2021-08-11),

(012, 'Executive', 2021-07-11),

(013, 'Executive', 14-02-21),

(014, 'Senior Manager',15-06-21);

1. How many employees are in each department
2. Who is getting highest sal in HR department?
3. Who is getting least salary in Admin department?
4. Geethika works in which department?
5. What is the total salary of accounts department?
6. How many leads are in the organization
7. Who are all managers in the organization?
8. What is the total Bonus Niharika is getting?
9. How many workers are getting Bonus?
10. Name the executives in the organization.

SQL QUERIES

--1

SELECT DISTINCT DEPARTMENT,COUNT(\*) AS 'COUNT OF EACH DEPT'

FROM WORKER

GROUP BY DEPARTMENT

--2

SELECT MAX(SALARY) AS 'HIGHEST SAL IN HR DEPT'

FROM Worker

WHERE DEPARTMENT='HR'

--3

SELECT MIN(SALARY) AS 'LEAST SAL IN ADMIN DEPT'

from Worker

WHERE DEPARTMENT='ADMIN'

--4

SELECT FIRST\_NAME,DEPARTMENT

FROM WORKER

WHERE FIRST\_NAME='GEETIKA'

--5

SELECT SUM(SALARY) AS 'TOTAL SAL OF ACCOUNT DEPT'

FROM WORKER

WHERE DEPARTMENT='Account'

--6

SELECT COUNT(\*)

FROM TITLE

WHERE WORKER\_TITLE='LEAD'

--7

SELECT W.FIRST\_NAME,T.WORKER\_TITLE

FROM WORKER W,TITLE T

WHERE W.WORKER\_ID=T.WORKER\_REF\_ID AND T.WORKER\_TITLE='MANAGER'

--8

SELECT SUM(B.BONUS\_AMOUNT) AS 'TOTAL BONUS'

FROM WORKER W,BONUS B

WHERE W.WORKER\_ID=B.WORKER\_REF\_ID AND W.FIRST\_NAME='NIHARIKA'

--9

SELECT COUNT(DISTINCT W.WORKER\_ID) AS 'GETTING BONUS'

FROM WORKER W,BONUS B

WHERE W.WORKER\_ID=B.WORKER\_REF\_ID

--10

SELECT W.FIRST\_NAME,T.WORKER\_TITLE

FROM WORKER W,TITLE T

WHERE W.WORKER\_ID=T.WORKER\_REF\_ID AND T.WORKER\_TITLE='EXECUTIVE'

--7 USING JOINS

SELECT COUNT(DISTINCT W.WORKER\_ID) AS 'TOTAL NO LEAD IN ORGANIZATION'

FROM WORKER W,TITLE T

WHERE W.WORKER\_ID=T.WORKER\_REF\_ID AND T.WORKER\_TITLE='LEAD'

SELECT \*

FROM BONUS