CREATE DATABASE ORG123;

SHOW DATABASES;

USE ORG123;

CREATE TABLE Worker (

WORKER\_ID INT NOT NULL PRIMARY KEY AUTO\_INCREMENT,

FIRST\_NAME CHAR(25),

LAST\_NAME CHAR(25),

SALARY INT(15),

JOINING\_DATE DATETIME,

DEPARTMENT CHAR(25)

);

INSERT INTO Worker

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

(001, 'Monika', 'Arora', 100000, '14-02-20 09.00.00', 'HR'),

(002, 'Niharika', 'Verma', 80000, '14-06-11 09.00.00', 'Admin'),

(003, 'Vishal', 'Singhal', 300000, '14-02-20 09.00.00', 'HR'),

(004, 'Amitabh', 'Singh', 500000, '14-02-20 09.00.00', 'Admin'),

(005, 'Vivek', 'Bhati', 500000, '14-06-11 09.00.00', 'Admin'),

(006, 'Vipul', 'Diwan', 200000, '14-06-11 09.00.00', 'Account'),

(007, 'Satish', 'Kumar', 75000, '14-01-20 09.00.00', 'Account'),

(008, 'Geetika', 'Chauhan', 90000, '14-04-11 09.00.00', 'Admin');

CREATE TABLE Bonus (

WORKER\_REF\_ID INT,

BONUS\_AMOUNT INT(10),

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'),

(002, 3500, '16-06-11');

CREATE TABLE Title (

WORKER\_REF\_ID INT,

WORKER\_TITLE CHAR(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 00:00:00'),

(002, 'Executive', '2016-06-11 00:00:00'),

(008, 'Executive', '2016-06-11 00:00:00'),

(005, 'Manager', '2016-06-11 00:00:00'),

(004, 'Asst. Manager', '2016-06-11 00:00:00'),

(007, 'Executive', '2016-06-11 00:00:00'),

(006, 'Lead', '2016-06-11 00:00:00'),

(003, 'Lead', '2016-06-11 00:00:00');

select \* from worker;

select \* from bonus;

select \* from title;

# 1. Write an SQL query to fetch unique values of DEPARTMENT from Worker table.

select distinct department from worker;

#2. Write an SQL query to print all Worker details from the Worker table order by FIRST\_NAME Ascending and DEPARTMENT Descending

select \* from worker

order by first\_name asc,department desc;

#3. Write an SQL query to print details of the Workers whose FIRST\_NAME contains ‘a’

select \* from worker

where first\_name like '%a%';

#4. Write an SQL query to print details of the Workers whose FIRST\_NAME ends with ‘h’ and contains six alphabets

select \* from worker

where first\_name like '\_\_\_\_\_h';

#5. Write an SQL query to print details of the Workers whose SALARY lies between 100000 and 500000

select \* from worker where salary between 100000 and 500000;

#6. Write an SQL query to print details of the Workers who have joined in Feb’2014.

select \* from worker

where month(joining\_date) = 2 and year(joining\_date) = 2014;

# 7. Write an SQL query to fetch the count of employees working in the department ‘Admin’

select count(\*) from worker where department = 'admin';

# 8. Write an SQL query to fetch worker names with salaries >= 50000 and <= 100000.

select first\_name,salary from worker

where salary >=50000 and salary<=100000;

#9. Write an SQL query to fetch the no. of workers for each department in the descending order

select department,count(department) from worker

group by department order by count(department) desc;

#10. Write an SQL query to print details of the Workers who are also Managers

select w.\* from worker w join title t on w.worker\_id = t.worker\_ref\_id

where t.worker\_title='manager';

#11. Write an SQL query to determine the 2nd lowest salary without using TOP or limit method.

select min(salary) from worker

where salary > (select min(w1.salary) from worker w1);

#12. Write an SQL query to fetch the list of employees with the same salary

select first\_name,salary from worker w

where (

select count(\*) from worker w1

WHERE w1.salary = w.salary

) > 1;

#13. Write an SQL query to show the second highest salary from a table

select distinct salary from worker order by salary desc limit 1 offset 1;

#14. Write an SQL query to show one row twice in results from a table.

# here i am printing row with worker id 1 two times in result

select \* from worker

union all

select \* from worker where worker\_id=1;

#15. Write an SQL query to fetch the first 50% records from a table.

select w1.\* from worker w1

where (

select count(\*) from worker w2

where w2.worker\_id <= w1.worker\_id

) <= (

select count(\*) / 2 from worker

)

order by w1.worker\_id;

#16. Write an SQL query to fetch the departments that have less than three people in it.

select department,count(department) from worker group by department having count(department)<3;

#17. Write an SQL query to show all departments along with the number of people in there.

select department, count(department) as no\_of\_employee from worker

group by department order by count(department);

#18. Write an SQL query to fetch the last five records from a table

select \* from

(select \* from worker

order by worker\_id desc limit 5) as temp

order by worker\_id asc;

#19. Write an SQL query to print the name of employees having the highest salary in each department

select first\_name,department,salary from worker

where salary in (select max(salary) from worker group by department);

#20. Write an SQL query to fetch three max salaries from a table

select distinct salary from worker order by salary desc limit 3;

#21. Write an SQL query to print the name of employees having the lowest salary in accunt and admin department

select first\_name,department,salary

from worker

where (department,salary) in (

select department, min(salary)

from worker

where department in ('Account', 'Admin')

group by department

);