**MYSQL - TEST**

NAME - AKSHIV AMRESH SAXENA

REGISTRATION NUMBER - 23BCE10785

horizontal line

**#Q1**

SELECT DISTINCT DEPARTMENT

FROM Worker;

**#2**

SELECT \*

FROM Worker

ORDER BY FIRST\_NAME ASC, DEPARTMENT DESC;

**#3**

SELECT \*

FROM Worker

WHERE FIRST\_NAME LIKE '%a%';

**#4**

SELECT \*

FROM Worker

WHERE FIRST\_NAME LIKE '\_\_\_\_\_h';

**#5**

SELECT \*

FROM Worker

WHERE SALARY BETWEEN 100000 AND 500000;

**#6**

SELECT \*

FROM Worker

WHERE MONTH(JOINING\_DATE) = 2 AND YEAR(JOINING\_DATE) = 2014;

**#7**

SELECT COUNT(\*)

FROM Worker

WHERE DEPARTMENT = 'Admin';

**#8**

SELECT FIRST\_NAME, LAST\_NAME

FROM Worker

WHERE SALARY BETWEEN 50000 AND 100000;

**#9**

SELECT DEPARTMENT, COUNT(\*) AS W\_C

FROM Worker

GROUP BY DEPARTMENT

ORDER BY W\_C DESC;

**#10**

SELECT w.\*

FROM Worker w

JOIN Title t ON w.WORKER\_ID = t.WORKER\_REF\_ID

WHERE t.WORKER\_TITLE = 'Manager';

**#11**

SELECT MIN(SALARY)

FROM Worker

WHERE SALARY > (

SELECT MIN(SALARY)

FROM Worker

);

**#12**

SELECT DISTINCT \*

FROM Worker w1

JOIN Worker w2 ON w1.SALARY = w2.SALARY AND w1.WORKER\_ID <> w2.WORKER\_ID

ORDER BY w1.SALARY, w1.FIRST\_NAME;

**#13**

SELECT MAX(SALARY)

FROM Worker

WHERE SALARY < (

SELECT MAX(SALARY)

FROM Worker

);

**#14**

SELECT \* FROM Worker WHERE WORKER\_ID = 5

UNION ALL

SELECT \* FROM Worker WHERE WORKER\_ID = 5;

**#15**

WITH NumberedBonus AS (

SELECT \*,

ROW\_NUMBER() OVER (ORDER BY BONUS\_DATE) AS rn,

COUNT(\*) OVER () AS total\_count

FROM Bonus

)

SELECT \*

FROM NumberedBonus

WHERE rn <= total\_count / 2;

**#16**

SELECT DEPARTMENT

FROM Worker

GROUP BY DEPARTMENT

HAVING COUNT(\*) < 3;

**#17**

SELECT DEPARTMENT, COUNT(\*) AS Num\_Employees

FROM Worker

GROUP BY DEPARTMENT;

**#18**

SELECT \*

FROM Worker

ORDER BY WORKER\_ID DESC

LIMIT 5;

**#19**

SELECT \*

FROM Worker w

WHERE SALARY = (

SELECT MAX(SALARY)

FROM Worker

WHERE DEPARTMENT = w.DEPARTMENT

);

**#20**

SELECT DISTINCT SALARY

FROM Worker

ORDER BY SALARY DESC

LIMIT 3;

**#21**

SELECT \*

FROM Worker w

JOIN (

SELECT DEPARTMENT, MIN(SALARY) AS MinSalary

FROM Worker

WHERE DEPARTMENT IN ('Account', 'Admin')

GROUP BY DEPARTMENT

) AS dept\_min

ON w.DEPARTMENT = dept\_min.DEPARTMENT

AND w.SALARY = dept\_min.MinSalary;