**JOINS**

Database Name: **HR**

1. Write a query to display the last name, department number, department name for all employees

SELECT B.last\_name,

A.department\_id,

A.department\_name

from HR.departments a inner join hr.employees b on a.department\_id=b.department\_id;

2. Create a unique list of all jobs that are in department 40,Include the location of the department in the output.

Select distinct b.job\_title, concat(d.location\_id,street\_address ,postal\_code,

city,state\_province,country\_id)as location from

Hr.employees a inner join hr.jobs b

on a.job\_id=b.job\_id inner join hr.departments c

on c.department\_id=a.department\_id inner join hr.locations d

on d.location\_id=c.location\_id

where c.department\_id=40

;

3.Write a query to display the employee last name,department name ,location id and city of all employees who earn commission.

select e.last\_name,d.department\_name,l.location\_id,l.city

FROM hr.departments AS d

INNER JOIN hr.employees AS e

ON d.department\_id = e.department\_id

INNER JOIN hr.locations AS l

ON d.location\_id=l.location\_id

where e.commission\_pct>0;

4. Display the employee last name and department name of all employees who have an 'a' in their last name

select e.last\_name,d.department\_name

from hr.employees e inner join hr.departments d

on e.department\_id=d.department\_id

where e.last\_name like '%a';

5. Write a query to display the last name ,job,department number and department name for all employees who work in ATLANTA.

6. Display the employee last name and employee number along with their manager's last name and manager number.

select a.last\_name,a.phone\_number,b.last\_name,b.phone\_number

from hr.employees a inner join hr.employees b on a.employee\_id=b.manager\_id;

7. Display the employee last name and employee number along with their manager's last name and manager number (including the employees who have no manager ) .

select a.last\_name,a.phone\_number,b.last\_name,b.phone\_number

from hr.employees a left join hr.employees b on a.employee\_id=b.manager\_id;

8. Create a query that displays employees last name ,department number,and all the employees who work in the same department as a given employee.

select e.last\_name,d.department\_id

from hr.employees e LEFT join hr.departments d

on e.department\_id=d.department\_id ;

9. Create a query that displays the name ,job,department name ,salary,grade for all employees.

Derive grade based on salary(>=50000=A, >=30000=B,<30000=C)

select CONCAT(E.FIRST\_NAME,E.LAST\_NAME) AS NAME,

J.JOB\_TITLE,D.DEPARTMENT\_NAME ,E.SALARY ,CASE

when E.salary >=50000 THEN 'A'

when E.salary >=30000 THEN 'B'

ELSE 'C' END AS GRADE FROM

HR.EMPLOYEES E INNER JOIN HR.JOBS J ON E.JOB\_ID=J.JOB\_ID

INNER JOIN HR.DEPARTMENTS D ON D.DEPARTMENT\_ID=E.DEPARTMENT\_ID ;

10. Display the names and hire date for all employees who were hired before their managers along withe their manager names and hire date.

Label the columns as Employee name , emp\_hire\_date,manager name,man\_hire\_date

select concat(a.last\_name,a.first\_name)as name ,a.hire\_date as emp\_hire,

concat(b.last\_name,b.first\_name)as manager\_name ,b.hire\_date as man\_hire\_date

from hr.employees a ,hr.employees b where a.employee\_id=b.manager\_id and a.hire\_date > b.hire\_date;