**ASSIGNMENT - 1**

**Dept Table:**

|  |  |  |
| --- | --- | --- |
| **DeptNo** | **Dname** | **Loc** |
| 10 | Accounts | Bangalore |
| 20 | IT | Delhi |
| 30 | Production | Chennai |
| 40 | Sales | Hyd |
| 50 | Admn | London |

**Emp Table:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EmpNo** | **Ename** | **Sal** | **Hire\_Date** | **Commission** | **DeptNo** | **Mgr** |
| 1001 | Sachin | 19000 | 1-Jan-1980 | 2100 | 20 | 1003 |
| 1002 | Kapil | 15000 | 1-Jan-1970 | 2300 | 10 | 1003 |
| 1003 | Stefen | 12000 | 1-Jan-1990 | 500 | 20 | 1007 |
| 1004 | Williams | 9000 | 1-Jan-2001 | NULL | 30 | 1007 |
| 1005 | John | 5000 | 1-Jan-2005 | NULL | 30 | 1006 |
| 1006 | Dravid | 19000 | 1-Jan-1985 | 2400 | 10 | 1007 |
| 1007 | Martin | 21000 | 1-Jan-2000 | 1040 | NULL | NULL |

1. Select employee details  of dept number 10 or 30

SELECT \*

FROM Emp

WHERE DeptNo = 10 OR DeptNo = 30;

1. Write a query to fetch all the dept details with more than 1 Employee.

SELECT d.DeptNo,d.Dname,d.Loc

FROM Dept d

INNER JOIN Emp e ON d.DeptNo = e.DeptNo

GROUP BY d.DeptNo,d.Dname,d.Loc

HAVING COUNT(e.EmpNo) > 1;

1. Write a query to fetch employee details whose name starts with the letter “**S”**

SELECT \*

FROM Emp

WHERE Ename LIKE 's%';

4.Select Emp Details Whose experience is more than 2 years

SELECT \*

FROM Emp

WHERE DATEDIFF(CURDATE(), Hire\_Date) > 2 ;

-- 5. Write a SELECT statement to replace the char “a” with “#” in Employee Name ( Ex: Sachin as S#chin)

SELECT Ename, REPLACE(Ename, 'a', '#') AS Modified\_name

FROM Emp

-- 6.Write a query to fetch employee name and his/her manager name.

SELECT e.Ename AS Employee\_Name, m.Ename AS Manager\_Name

FROM Emp e

JOIN Emp m ON e.Mgr = m.EmpNo;

-- 7.Fetch Dept Name , Total Salry of the Dept

SELECT d.Dname AS Department\_Name, SUM(e.sal) AS Total\_Salary

FROM Dept d

JOIN Emp e ON d.DeptNo = e.DeptNo

GROUP BY Dname;

-- 8.Write a query to fetch ALL the employee details along with department name, department location, irrespective of employee existance in the department.

SELECT e.EmpNo, e.Ename, e.Sal, e.Hire\_Date, e.Commission, e.DeptNo, e.Mgr, d.Dname AS Department\_Name, d.Loc AS Department\_Location

FROM Emp e

LEFT JOIN Dept d ON e.DeptNo = d.DeptNo;

-- 9.Write an update statement to increase the employee salary by 10 %

UPDATE Emp

SET Sal = Sal + (Sal \* 0.1);

-- 10.Write a statement to delete employees belong to Chennai location.

DELETE FROM Emp

WHERE DeptNo IN(

SELECT DeptNo

FROM Dept

WHERE Loc = 'Chennai');

-- 11.Get Employee Name and gross salary (sal + comission)

SELECT Ename AS Employee\_Name , Sal + COALESCE(Commission,0) AS Gross\_Salary

FROM Emp;

-- 12.Increase the data length of the column Ename of Emp table from 100 to 250 using ALTER statement

ALTER TABLE Emp

MODIFY COLUMN Ename varchar(250);

-- 13.Write query to get current datetime

SELECT current\_timestamp() AS CURRENT\_DATETIME

-- 14.Write a statement to create STUDENT table, with related 5 columns

CREATE TABLE STUDENT(

Student\_ID INT PRIMARY KEY,

FirstName VARCHAR(50),

SecondName VARCHAR(50),

Age INT,

Gender VARCHAR(1)

);

-- 15.Write a query to fetch number of employees in who is getting salary more than 10000

SELECT COUNT(\*) AS Employee\_Count

FROM Emp

WHERE Sal > 10000;

-- 16. Write a query to fetch minimum salary, maximum salary and average salary from emp table.

SELECT MIN(Sal) AS Min\_Salary,MAX(Sal) AS Max\_Salary,AVG(Sal) AS Avg\_Salary

FROM Emp;

-- 17.Write a query to fetch number of employees in each location

SELECT Loc AS Location, COUNT(\*) AS Employee\_Count

FROM Dept d

JOIN Emp e ON d.DeptNo = e.DeptNo

GROUP BY Loc;

-- 18.Write a query to display emplyee names in descending order

select Ename AS EmployeeName

from Emp

order by Ename desc;

-- 19.Write a statement to create a new table(EMP\_BKP) from the existing EMP table

create table Emp\_BKP as

select \* from Emp;

-- 20.Write a query to fetch first 3 characters from employee name appended with salary.

select concat(left(Ename,3),Sal) as EmployeeName\_Salary

from Emp;

-- 21.Get the details of the employees whose name starts with S

select \*

from Emp

where Ename like 's%';

-- 22.Get the details of the employees who works in Bangalore location

select e.\*

from Emp e

join Dept d on e.Deptno = d.Deptno

where d.loc ='Bangalore';

-- 23.Write the query to get the employee details whose name started within any letter between A and K

Select e.\*

from Emp e

where Ename between 'A' and 'K';

-- 24.Write a query in SQL to display the employees whose manager name is Stefen

-- select \* from Emp

-- where Mgr = 1003;

select e.Ename, m.Ename

from Emp e

inner join Emp m on e.Mgr= m.EmpNo

where m.Ename = 'Stefen';

-- 25.Write a query in SQL to list the name of the managers who is having maximum number of employees working under him

select e2.Ename as Manager\_name, count(\*) as Employee\_count

from Emp e1

join Emp e2 on e1.Mgr = e2.EmpNo

group by e2.Ename

having count(\*) = (

select count(\*) as maxEmployee\_count

from Emp

where Mgr is not null

group by Mgr

order by maxEmployee\_count Desc

limit 1

);

-- 26.Write a query to display the employee details, department details and the manager details of the employee who has second highest salary

select e.\*,d.Dname,d.Loc

from Emp e

left join Dept d on e.DeptNo = d.DeptNo

where Sal <(

select max(Sal)

from Emp )

limit 1;

-- 27) Write a query to list all details of all the managers

select e.\*, m.Ename as Manager\_name

from Emp e

inner join Emp m on e.Mgr = m.EmpNo;

-- 28) Write a query to list the details and total experience of all the managers

select m.Ename,m.EmpNo,m.Hire\_Date as Manager\_HireDate, count(datediff(curdate(),m.Hire\_Date)) as total\_Experience

from Emp e

join Emp m on e.Mgr = m.EmpNo

group by m.EmpNo,m.Ename,m.Hire\_Date;

-- 29.Write a query to list the employees who is manager and takes commission less than 1000 and works in Delhi

select e.EmpNo,e.Ename,e.Commission

from Emp e

join Emp m on e.EmpNo = m.Mgr

join Dept d on e.DeptNo = d.DeptNo

where e.Commission < 3000 and d.Loc = 'Delhi';

-- 30.Write a query to display the details of employees who are senior to Martin

select e.\*

from Emp e

where Hire\_date < (

select Hire\_date

from Emp

where Ename = 'Martin');