

ASSIGNMENT -1

Q.1) TOTAL NUMBER OF EMPLOYEES??

*select * from dept;*

*select *from emp;*

select count() from emp;*

ANSWER -

COUNT(*)
14

[Download CSV](#)

QUES 2.) Total Number of departments?

ANSWER .) *select count(*) from dept;*

COUNT(*)
4

[Download CSV](#)

QUES 3.) All the employees??

select ename from emp;

PRERNA KAPOOR

ENAME
KING
BLAKE
CLARK
JONES
SCOTT
FORD
SMITH
ALLEN
WARD
MARTIN
TURNER
ADAMS
JAMES
MILLER

Ques 4.) All The departments ?

select dname from dept;

DNAME	
ACCOUNTING	
RESEARCH	
SALES	
OPERATIONS	

Ques 5.) Total salary paid for all employees??

Answer *select sum(sal) from emp;*

2	<i>select *from emp;</i>
3	<i>describe emp;</i>
4	<i>select sum(sal) from emp;</i>

SUM(SAL)
29025

Q 6.) Total Commission paid for all employees?

select sum(comm) from emp;

PRERNA KAPOOR

SUM(COMM)
2200

Q 7.) Which job Titles of the employees get Commission Paid??

select job as job_title,comm from emp where comm is not null;

JOB_TITLE	COMM
SALESMAN	300
SALESMAN	500
SALESMAN	1400
SALESMAN	0

Ques.8) System Date ??

select sysdate from dual;

SYSDATE
13-Apr-24

Ques.9) Average Salary Paid to all employees?

Ans .) *select avg(sal) from emp;*

1	<i>select Avg(sal) from emp;</i>
---	----------------------------------

AVG(SAL)
2073.214285714285714285714285714286

Ques.10) How Many Employees are their in each department?

select d.dname, count() from emp e full outer join dept d on e.deptno = d.deptno group by d.dname;*

PRERNA KAPOOR

DNAME	COUNT(*)
RESEARCH	5
SALES	6
ACCOUNTING	3
OPERATIONS	1

Ques.11.)) Total Salary of the Employees in each department?

select d.dname,sum(e.sal) from emp e full outer join dept d on e.deptno = d.deptno group by d.dname;

DNAME	SUM(E.SAL)
RESEARCH	10875
SALES	9400
ACCOUNTING	8750
OPERATIONS	-

or

select deptno, sum(sal)

from emp

group by deptno;

DEPTNO	SUM(SAL)
30	9400
10	8750
20	10875

Ques.12) How Many employees are their under each job Title??

select job,count() from emp group by job;*

PRERNA KAPOOR

JOB	COUNT(*)
ANALYST	2
CLERK	4
SALESMAN	4
MANAGER	3
PRESIDENT	1

or

```
select ename, job, count(*)
```

```
from emp
```

```
group by ename, job
```

```
order by ename, job;
```

ENAME	JOB	COUNT(*)
ADAMS	CLERK	1
ALLEN	SALESMAN	1
BLAKE	MANAGER	1
CLARK	MANAGER	1
FORD	ANALYST	1
JAMES	CLERK	1
JONES	MANAGER	1
KING	PRESIDENT	1
MARTIN	SALESMAN	1
MILLER	CLERK	1
SCOTT	ANALYST	1
SMITH	CLERK	1
TURNER	SALESMAN	1
WARD	SALESMAN	1

13.) Average salary paid for each job title?

```
select job, avg(sal) from emp group by job;
```

PRERNA KAPOOR

```
1 select job, avg(sal) from emp group by job;
2
3
```

[illegible]

Ques 14.) Hiredate, day month for each employee?

```
select ename, hiredate, to_char(hiredate,'YYYY'),
       to_char(hiredate,'MON'), to_char(hiredate,'DD')
```

```
from emp;
```

ENAME	HIREDATE	YEAR	MONTH)	DATE
KING	17-Nov-81	1981	NOV	17
BLAKE	01-May-81	1981	MAY	1
CLARK	09-Jun-81	1981	JUN	9
JONES	02-Apr-81	1981	APR	2
SCOTT	19-Apr-87	1987	APR	19
FORD	03-Dec-81	1981	DEC	3
SMITH	17-Dec-80	1980	DEC	17
ALLEN	20-Feb-81	1981	FEB	20
WARD	22-Feb-81	1981	FEB	22
MARTIN	28-Sep-81	1981	SEP	28
TURNER	08-Sep-81	1981	SEP	8
ADAMS	23-May-87	1987	MAY	23
JAMES	03-Dec-81	1981	DEC	3
MILLER	23-Jan-82	1982	JAN	23

Ques 15.) SORT THE EMPLOYEES DEPARTMENT WISE?

```
select dname,ename from emp full outer join dept on emp.deptno=dept.deptno order by dname
asc;
```

PRERNA KAPOOR

DNAME	ENAME
ACCOUNTING	MILLER
ACCOUNTING	CLARK
ACCOUNTING	KING
OPERATIONS	-
RESEARCH	JONES
RESEARCH	FORD
RESEARCH	SMITH

RESEARCH	FORD
RESEARCH	SMITH
RESEARCH	ADAMS
RESEARCH	SCOTT
SALES	JAMES
SALES	TURNER
SALES	MARTIN
SALES	WARD

SALES	ALLEN
SALES	BLAKE

Ques 16.) Sort all the employees based on their JOB title?

SELECT *ename, job* FROM emp ORDER BY *ename ASC, job ASC*

ENAME	JOB
ADAMS	CLERK
ALLEN	SALESMAN
BLAKE	MANAGER
CLARK	MANAGER
FORD	ANALYST
JAMES	CLERK
JONES	MANAGER
KING	PRESIDENT
MARTIN	SALESMAN
MILLER	CLERK
SCOTT	ANALYST
SMITH	CLERK
TURNER	SALESMAN
WARD	SALESMAN

PRERNA KAPOOR

Ques 17.) Sort the employees based on the decending order of their salary?

SELECT empno , ename, sal FROM emp ORDER BY sal desc;

EMPNO	ENAME	SAL
7839	KING	5000
7788	SCOTT	3000
7902	FORD	3000
7566	JONES	2975
7698	BLAKE	2850
7782	CLARK	2450
7499	ALLEN	1600
7844	TURNER	1500
7934	MILLER	1300
7654	MARTIN	1250
7521	WARD	1250
7876	ADAMS	1100
7900	JAMES	950
7369	SMITH	800

Ques 18.) Sort the employees Asscending order of their department and descending order of their salary?

select e.ename,d.dname,e.sal from emp e full outer join dept d on e.deptno=d.deptno order by d.dname,sal desc;

ENAME	DNAME	SAL
KING	ACCOUNTING	5000
CLARK	ACCOUNTING	2450
MILLER	ACCOUNTING	1300
-	OPERATIONS	-
SCOTT	RESEARCH	3000
FORD	RESEARCH	3000
JONES	RESEARCH	2975

PRERNA KAPOOR

ADAMS	RESEARCH	1100
SMITH	RESEARCH	800
BLAKE	SALES	2850
ALLEN	SALES	1600
TURNER	SALES	1500
WARD	SALES	1250
MARTIN	SALES	1250
JAMES	SALES	950

or

SELECT ename, deptno , sal FROM emp ORDER BY deptno asc , sal desc;

ENAME	DEPTNO	SAL
KING	10	5000
CLARK	10	2450
MILLER	10	1300
SCOTT	20	3000
FORD	20	3000
JONES	20	2975
ADAMS	20	1100
SMITH	20	800
BLAKE	30	2850
ALLEN	30	1600
TURNER	30	1500
WARD	30	1250
MARTIN	30	1250
JAMES	30	950

Ques 19) How Many employees have their name with 6 character?

select count(ename) from emp where length(ename)=6;

COUNT (ENAME)
3

or

```
1 v SELECT ename
2   FROM emp
3  WHERE length(ename)=6;
```

ENAME
MARTIN
TURNER
MILLER

Ques 20.) Maximum and minimum salary paid?

select max(sal) from emp;

select min(sal) from emp;

```
1 select max(sal) from emp;
2 select min(sal) from emp;
3
```

MAX(SAL)
5000

Download CSV

MIN(SAL)
800

Ques 21.) Maximum , minimum , average , sum salary paid to each department ?

*select dname,max(sal),min(sal),sum(sal),avg(sal) from emp e full outer join dept d on
e.deptno=d.deptno group by d.dname;*

PRERNA KAPOOR

[illegible]

or

```
1 select deptno, max(sal), min(sal), avg(sal) ,sum(sal)
2 from emp
3 group by deptno;
```

DEPTNO	MAX(SAL)	MIN(SAL)	AVG(SAL)	SUM(SAL)
30	2850	950	1566.666666666666666666666666666667	9400
10	5000	1300	2916.666666666666666666666666666667	8750
20	3000	800	2175	10875

Ques 22.) SORT the employees based on their hiredates?

```
select ename,hiredat from emp order by hiredat;
```

ENAME	HIREDATE
SMITH	17-Dec-80
ALLEN	20-Feb-81
WARD	22-Feb-81
JONES	02-Apr-81
BLAKE	01-May-81
CLARK	09-Jun-81
TURNER	08-Sep-81
MARTIN	28-Sep-81
KING	17-Nov-81
FORD	03-Dec-81
JAMES	03-Dec-81
MILLER	23-Jan-82
SCOTT	19-Apr-87
ADAMS	23-May-87

PRERNA KAPOOR

Ques 23.) Employees who joined LATEST?

select ename,hiredate from emp where hiredate = (select max(hiredate) from emp);

ENAME	HIREDATE
ADAMS	23-MAY-87

Ques 24.) Who is the latest employees in the organization based on their hiredate ?

select ename,hiredate from emp where hiredate = (select min(hiredate) from emp);

ENAME	HIREDATE
SMITH	17-DEC-80

Ques 25.) Sort the employees based on hire year (descending) and department number (Ascending) ?

select e.ename,e.hiredate,d.dname

from emp e

full outer join dept d on e.deptno=d.deptno

order by to_char(e.hiredate,'YYYY') desc,d.dname;

ENAME	HIREDATE	DNAME	
-	-	OPERATIONS	
SCOTT	19-Apr-87	RESEARCH	
ADAMS	23-May-87	RESEARCH	
MILLER	23-Jan-82	ACCOUNTING	
CLARK	09-Jun-81	ACCOUNTING	
KING	17-Nov-81	ACCOUNTING	
JONES	02-Apr-81	RESEARCH	
FORD	03-Dec-81	RESEARCH	
JAMES	03-Dec-81	SALES	
TURNER	08-Sep-81	SALES	
MARTIN	28-Sep-81	SALES	
WARD	22-Feb-81	SALES	
ALLEN	20-Feb-81	SALES	
BLAKE	01-May-81	SALES	
SMITH	17-Dec-80	RESEARCH	

PRERNA KAPOOR

QUES.26) Emp who get salaries greater than or equal to avg sal of the emp?

ANS) `select ename,sal from emp where sal>= (select avg(sal) from emp);`

ENAME	SAL
KING	5000
BLAKE	2850
CLARK	2450
JONES	2975
SCOTT	3000
FORD	3000

QUES .27) Employees who get sal less than or equal to avg sal of emp?

ANS) `Select ename,sal from emp where sal<= (select avg(sal) from emp);`

ENAME	SAL
SMITH	800
ALLEN	1600
WARD	1250
MARTIN	1250
TURNER	1500
ADAMS	1100
JAMES	950
MILLER	1300

QUES.28) employees get sal b/w 2000 and 4000??

ANS)

```
1 select ename,sal from emp where sal>=2000 and sal<=4000;  
2  
3
```

ENAME	SAL
BLAKE	2850
CLARK	2450
JONES	2975
SCOTT	3000
FORD	3000

PRERNA KAPOOR

QUES.29) Which employees get highest and lowest sal?

`select ename,sal from emp where sal=(select max(sal) from emp) union select ename,sal from emp where sal=(select min(sal) from emp);`

ENAME	SAL
KING	5000
SMITH	800

QUES.30) How many gifts need buy next month?

`select count(*) from emp where to_char(hiredate, 'mm') = to_char(add_months(current_date, 1), 'mm');`

COUNT(*)
2

Oracle SQL Sessions

Assignment # 1

Download the script for creating EMP and DEPT tables from the <https://livesql.oracle.com/> which we are already aware. Create the tables and insert by running the contents of the script.

Write SQL for the below mentioned requirements to extract:

1. total number of employees
2. total number of departments
3. all the employees
4. all the departments
5. total salary paid for all employees.
6. total commission paid to all employees.
7. Which job titles of the employees get commission paid.
8. System date
9. Average salary paid to all employees.
10. How many employees are there in each department?
11. Total salary of the employees in each department
12. How many employees are there under each job title?
13. Average salary paid for each job title.
14. hire day, month, and year for each employee.
15. Sort the employee department wise.
16. Sort the employee based on their job titles.
17. Sort the employee based on descending order of their salaries.
18. Sort the employee ascending order of their department and descending order of their salary.
19. How many employees have their name with 6 characters.
20. Maximum and minimum salary paid.
21. Maximum, minimum, average and sum of salary paid under each department.
22. Sort the employee based on their hire date.
23. Employee who joined latest
24. Who is the oldest employee in the organization based on their hire date?
25. Sort the employee based on their hire year (descending) and department (ascending)
26. Employees who get salaries greater than or equal to the average salary of employees.
27. Employees who get salary less than or equal to average salary of employees.
28. Employees get salaries between 2000 and 4000.
29. Which employees get the highest and lowest salary?
30. We need to celebrate the joining month of the employees. We plan to buy a gift for each of them. How many gifts do I need to buy for next month?