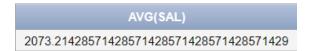Name: Pinaki Ganguly

Dept.: CSE

~~Name: Pinaki Ganguly~~

~~Dept.: CSE~~

1. Calculate the average salary of all employees.

Ans. Calculate the average salary of all employees.

AVG(SAL)
2073.21428571428571428571428571428571429

2. Calculate the average salary of all Managers.

Ans. select job,avg(sal) from emp1 where job='MANAGER' group by job;

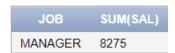| JOB	AVG(SAL)
MANAGER	2758.33333333333333333333333333333333333

3. Calculate the total salary of all employees.

Ans. select sum(sal) from emp1;

SUM(SAL)
29025

4. Calculate the total salary of all managers.

Ans. select job,sum(sal) from emp1 where job='MANAGER' group by job;

JOB	SUM(SAL)
MANAGER	8275

5. Find the minimum salaries earned by the employees.

Ans. select min(sal) MINIMUM from emp1;

MINIMUM
800

6. Find the maximum salaries earned by the employees.

Ans. select max(sal) MAXIMUM from emp1;

MAXIMUM
5000

7. Find the minimum salaries earned by clerks.

Ans. select job,min(sal) from emp1 where job='CLERK' group by job;

JOB	MIN(SAL)
CLERK	800

8. Find the maximum salaries earned by a salesman.

Ans. select job,max(sal) from emp1 where job='SALESMAN' group by job;

JOB	MAX(SAL)
SALESMAN	1600

9. Find the minimum, maximum and average salaries earned by employees.

Ans. select min(sal),max(sal),avg(sal) from emp1;

MIN(SAL)	MAX(SAL)	AVG(SAL)
800	5000	2073.21428571428571428571428571428571429

10. Find the minimum maximum and average salaries earned by a clerks.

Ans. select job,min(sal),max(sal),avg(sal) from emp1 where job='CLERK' group by job;

JOB	MIN(SAL)	MAX(SAL)	AVG(SAL)
CLERK	800	1300	1037.5

11. List the total number of employees and the average salaries of the different departments.

Ans. select deptno,sum(empno),avg(sal) from emp1 group by deptno;

DEPTNO	SUM(EMPNO)	AVG(SAL)
30	46116	1566.66666666666666666666666666666666667
20	38501	2175
10	23555	2916.66666666666666666666666666666666667

12. Calculate total number of employees.

Ans. select count(*) from emp1;

COUNT(EMPNO)
14

13. Calculate total number of managers.

Ans. select job,count(*) from emp1 where job='MANAGER' group by job;

JOB	COUNT(*)
MANAGER	3

14. Calculate the number of employees who are not getting any commission.

Ans. select count(*) from emp1 where COMM is NULL;

COUNT(*)
11

15. Calculate the number of employees who are getting any commission.

Ans. select count(*) from emp1 where COMM is NOT NULL;

COUNT(*)
3

16. List the details of all managers in ascending order of joining dates.

Ans. select job,hiredate from emp1 where job='MANAGER' order by hiredate;

JOB	HIREDATE
MANAGER	04/02/1981
MANAGER	05/01/1981
MANAGER	06/09/1981

17. List the average salaries for each different job.

Ans. select job,avg(sal) from emp1 group by job;

JOB	AVG(SAL)
CLERK	1037.5
SALESMAN	1400
PRESIDENT	5000
MANAGER	2758.333333333333333333333333333333333
ANALYST	3000

18. Display the minimum, maximum, and average salaries for each job group.

Ans. select job,max(sal),min(sal),avg(sal) from emp1 group by job;

JOB	MAX(SAL)	MIN(SAL)	AVG(SAL)
CLERK	1300	800	1037.5
SALESMAN	1600	1250	1400
PRESIDENT	5000	5000	5000
MANAGER	2975	2450	2758.333333333333333333333333333333333
ANALYST	3000	3000	3000

19. Find all departments which have less than 3 employees.

Ans. select deptno from emp1 group by deptno having count(deptno)<3;

no data found

20. List the details of the employees in ascending order of department number, and within each department, in descending order of salary.

Ans. select *from emp1 order by deptno,sal desc;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	11/17/1981	5000	-	10
7782	CLARK	MANAGER	7839	06/09/1981	2450	-	10
7934	MILLER	CLERK	7782	01/23/1982	1300	-	10
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20
7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7698	BLAKE	MANAGER	7839	05/01/1981	2850	-	30
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30
7844	TURNER	SALESMAN	7698	09/08/1981	1500	-	30
7654	MARTIN	SALESMAN	7698	09/28/1981	1250	1400	30
7521	WARD	SALESMAN	7698	02/22/1981	1250	500	30
7900	JAMES	CLERK	7698	12/03/1981	950	-	30

21. Display the name, deptno and annual salary of each employee in order salary and deptno.

Ans. select ename,deptno,sal from emp1 order by deptno,sal;

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

22. Display the name of employee who earns maximum salary.

Ans. select ename from emp where sal= (select max(sal) from emp);

ENAME
KING

23. Display the name of employee who earns minimum salary.

Ans. select ename from emp where sal= (select min(sal) from emp);

ENAME
SMITH

24. Display the name of employee who earns maximum salary whose job is salesman.

Ans. select ename from emp where sal= (select max(sal) from emp where job='SALESMAN');

ENAME
ALLEN

25. Display the name of employee who earns minimum salary whose job is clerk.

Ans. select ename from emp where sal= (select min(sal) from emp where job='CLERK');

ENAME
SMITH

26. Display the department number whose average salary is maximum.

Ans. select deptno,avg(sal) from emp1 group by deptno having avg(sal)=(select max(avg(sal)) from emp1 group by deptno);

DEPTNO	AVG(SAL)
10	2916.6666666666666666666666666666666667