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DBMS AB:

1) List no of employees & average salary for employees in department 20.

SQL select count(eno), avg(sal) from emp where dept no = 20;

COUNT(ENO)	AVG(SAL)
5	2215

2) SQL select ename, sal, sal*0.1 "PF" from emp;

ENAME	SAL	PF
Smith	1000	100
Allen	1600	160
Ward	1250	125
Jones	2975	297.5
Mart	1250	125
Blake	2850	285
Clark	2450	245
Wong	3000	300
King	5000	500
Turn	1500	150
Adam	1100	110
Jones	950	95
Ford	3000	300
Middle	1300	130

5) ...
3) Select ename from emp where round(sysdate-hiredate) > 2;

ENAME

Smith
Allen
WARD
Jones
Marti
Blake
Clark
Mong
King
Turn
Adam
James
Ford
Mills

4) Select ename, sal from emp order by sal;

ENAME	SAL
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Jones	950
Smith	1000
Adam	1100
WARD	1250
Marti	1250
Mills	1300
Turn	1500
Allen	1600
Clark	2450
Blake	2850
Jones	2975
Mong	3000
Ford	3000
King	5000

5) Select ename, hiredate order by hiredate desc;

ENAME	HIREDATE
Ford	03-DEC-89
Jones	03-DEC-89
King	17-NOV-89
Martti	28-SEP-89
Turn	08-SEP-89
Clark	09-JUN-89
Blake	01-MAY-89
Jones	02-APR-89
Ward	22-FEB-89
Allen	20-FEB-89
Smith	17-DEC-88
Adam	23-MAY-87
Wong	19-APR-87
Mile	23-JAN-86

6) Select ename, sal, sal*0.1 "PF", sal*0.5 "HRA", sal*0.3 "DA",
sal+sal*0.1+sal*0.5+sal*0.3 as GROSS from emp order
by GROSS;

ENAME	SAL	PF	HRA	DA	GROSS
Jones	950	95	475	285	1600
Smith	1000	100	500	300	1900
Adam	1100	110	550	330	2090
Ward	1250	125	625	375	2375
Martti	1250	125	625	375	2375
Mile	1300	130	650	390	2470
Turn	1500	150	750	450	2850
Allen	1600	160	800	480	3040
Clark	2450	245	1225	735	4655
Blake	2850	285	1425	855	5415
Jones	2975	297.5	1487.5	892.5	5652.5
Wong	3000	300	1500	900	5700

7) select deptno, count(eno) from dept, emp where
emp.deptno = dept.dno group by deptno;

DEPTNO	COUNT(ENO)
80	6
20	5
10	3

~~8) List employees names~~

8) select deptno, sum(sal) from dept, emp where
emp.deptno = dept.dno group by deptno order by count(eno)
desc;

JOB	COUNT(ENO)
Clerk	4
Salesman	4
Manager	3
Analyst	2
President	1

9) select job, count(eno) from dept, emp where
emp.deptno = dept.dno group by job order by count(eno)
desc;

JOB	COUNT(ENO)
Clerk	4
Salesman	4
Manager	3
Analyst	2
President	1

10) select job, sum(sal), max(sal), avg(sal) from emp, dept where emp.deptno = dept.no group by job.

JOB	SUM(SAL)	MAX(SAL)	MIN(SAL)	AVG(SAL)
			950	1087.5
Clerk	4350	1300	2450	2758.3333
Manager	8275	2975	3000	3000
Analyst	6000	3000	5000	5000
President	5000	5000	1250	1400
Salesman	5600	1250		

11) select sum(sal), max(sal), min(sal), avg(sal) from emp where deptno = 20;

SUM(SAL)	MAX(SAL)	AVG(SAL)
11075	3000	2215

12) select job, deptno, sum(sal), max(sal), min(sal), avg(sal) from emp group by job, deptno having avg(sal) > 1000;

JOB	DEPTNO	SUM(SAL)	MAX(SAL)	MIN(SAL)	AVG(SAL)
			1300	1300	1300
Clerk	10	1300	1300	2975	2975
Manager	20	2975	2975	2850	2850
Manager	30	2850	2850	5000	5000
President	10	5000	5000	1000	1050
Clerk	20	2100	1100	1250	1400
Salesman	30	5600	1600	2450	2450
Manager	10	2450	2450	3000	3000
Analyst	20	6000	3000		