

[REDACTED]  
Name: Pinaki Ganguly  
[REDACTED]

---

--Q1. List the employees belonging to the department 20.

ANS: SELECT ENAME FROM EMP WHERE DEPTNO=20;

OUTPUT:

ENAME

JONES

SCOTT

FORD

SMITH

ADAMS

--Q2. List the name and salary of the employees whose salary is more than 1000.

ANS: SELECT ENAME,SAL FROM EMP WHERE SAL>1000;

OUTPUT:

ENAME SAL

KING 5000

BLAKE 2850

CLARK 2450

JONES 2975

SCOTT 3000

FORD 3000  
ALLEN 1600  
WARD 1250  
MARTIN 1250  
TURNER 1500  
ADAMS 1100  
MILLER 1300

--Q3. List the names of the clerks working in the department 20.

ANS: SELECT ENAME FROM EMP WHERE JOB='CLERK' AND DEPTNO=20;

OUTPUT:

ENAME

SMITH

ADAMS

--Q4. List the name of the analysts and salesman.

ANS: SELECT ENAME FROM EMP WHERE JOB IN('ANALYST','SALESMAN');

OUTPUT:

ENAME

SCOTT

FORD

ALLEN

WARD

MARTIN

TURNER

--Q5. List the details of the employees who have joined before the end of September 81.

ANS: SELECT \* FROM EMP WHERE HIREDATE<'10/01/1981';

OUTPUT:

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7698	BLAKE	MANAGER		05/01/1981	2850	-	30
7782	CLARK	MANAGER		06/09/1981	2450	-	10
7566	JONES	MANAGER		04/02/1981	2975	-	20
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30
7521	WARD	SALESMAN	7698	02/22/1981	1250	500	30
7654	MARTIN	SALESMAN		09/28/1981	1250	1400	30
7844	TURNER	SALESMAN		09/08/1981	1500	0	30

--Q6. List the names of the employees who are not managers.

ANS: SELECT ENAME FROM EMP WHERE JOB<>'MANAGER';

OUTPUT:

ENAME

KING

SCOTT

FORD

SMITH  
ALLEN  
WARD  
MARTIN  
TURNER  
ADAMS  
JAMES  
MILLER

--Q7. List the name of the employees whose employee numbers 7369,7521,7839,7934,7788.

ANS: SELECT ENAME FROM EMP WHERE EMPNO IN (7369,7521,7839,7934,7788);

OUTPUT:

ENAME

SMITH  
WARD  
SCOTT  
KING  
MILLER

--Q8. List the employee details not belonging to the department 10,30 and 40.

ANS: SELECT \* FROM EMP WHERE DEPTNO NOT IN (10,30,40);

OUTPUT:

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
-------	-------	-----	-----	----------	-----	------	--------

7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20

--Q9. List the employee names who have joined before 30 th June'81 and after December'81.

ANS: SELECT ENAME FROM EMP WHERE HIREDATE<'06/30/1981' OR HIREDATE>'12/01/1981';

OUTPUT:

ENAME

BLAKE

CLARK

JONES

SCOTT

FORD

SMITH

ALLEN

WARD

ADAMS

JAMES

MILLER

--Q10. List the name of the employee and designation (job) of the employee who does not report to anybody (who doesn't have manager).

ANS: SELECT ENAME,JOB FROM EMP WHERE MGR IS NULL;

OUTPUT:

ENAME JOB

KING    PRESIDENT

--Q11. List the different jobs (designations) available in the emp table.

ANS: SELECT DISTINCT(JOB) FROM EMP;

OUTPUT:

JOB

CLERK

SALESMAN

PRESIDENT

MANAGER

ANALYST

--Q12. List the employees not assigned to any department.

ANS: select \* from emp1 where deptno is null;

OUTPUT:

no data found

--Q13. List the details of the employees whose salary is greater than 2000 and not eligible for commission.

ANS: select ename from emp where sal > 2000 and comm is NULL;

OUTPUT:

ENAME

KING

BLAKE

CLARK

JONES

SCOTT

FORD

--Q14. List the employee names having 'l' as the second character.

ANS: select ename from emp where ename like '\_l%';

OUTPUT:

ENAME

KING

MILLER

--Q15. List the name, salary and PF amount of all the employees (PF is calculated as 10% of salary).

ANS: select ename,sal,(sal\*0.1) as PF from emp

OUTPUT:

ENAME	SAL	PF
KING	5000	500
BLAKE	2850	285
CLARK	2450	245
JONES	2975	297.5
SCOTT	3000	300
FORD	3000	300
SMITH	800	80
ALLEN	1600	160
WARD	1250	125
MARTIN	1250	125
TURNER	1500	150
ADAMS	1100	110
JAMES	950	95
MILLER	1300	130

--Q16. List the employee number, name and salary in ascending order of salary.

ANS: select empno,ename,sal from emp order by sal;

OUTPUT:

EMPNO	ENAME	SAL
7369	SMITH	800
7900	JAMES	950
7876	ADAMS	1100
7654	MARTIN	1250
7521	WARD	1250



7934	MILLER	1300
7844	TURNER	1500
7499	ALLEN	1600
7782	CLARK	2450
7698	BLAKE	2850
7566	JONES	2975
7902	FORD	3000
7788	SCOTT	3000
7839	KING	5000

--Q17. Lists the employee name and hiredate in descending order of hiredate.

ANS: select ename,hiredate from emp order by hiredate desc;

OUTPUT:

ENAME HIREDATE

ADAMS 01/12/1983

SCOTT 12/09/1982

MILLER 01/23/1982

FORD 12/03/1981

JAMES 12/03/1981

KING 11/17/1981

MARTIN 09/28/1981

TURNER 09/08/1981

CLARK 06/09/1981

BLAKE 05/01/1981

JONES 04/02/1981

WARD 02/22/1981

ALLEN 02/20/1981

SMITH 12/17/1980

--Q18. List the employee name, salary, PF, HRA, DA and gross salary;order the result in ascending order of gross.HRA is 50% of salary and DA is 30% of salary.

ANS: select ename,sal,(sal\*(10/100)) as PF,(sal\*(50/100)) as HRA,(sal\*(30/100)) as DA,((sal\*(10/100))+(sal\*(50/100))+(sal\*(30/100))) as gross from emp order by gross;

OUTPUT:

ENAME	SAL	PF	HRA	DA	GROSS
SMITH	800	80	400	240	720
JAMES	950	95	475	285	855
ADAMS	1100	110	550	330	990
MARTIN	1250	125	625	375	1125
WARD	1250	125	625	375	1125
MILLER	1300	130	650	390	1170
TURNER	1500	150	750	450	1350
ALLEN	1600	160	800	480	1440
CLARK	2450	245	1225	735	2205
BLAKE	2850	285	1425	855	2565
JONES	2975	297.5	1487.5	892.5	2677.5
FORD	3000	300	1500	900	2700
SCOTT	3000	300	1500	900	2700
KING	5000	500	2500	1500	4500

Q19. List the department number and the total salary payable in each department. List the jobs and number of employees in each job.The result should be in descending order of the number of employees.

OUTPUT:

20	2975	MANAGER	1
10	5000	PRESIDENT	1
10	2450	MANAGER	1
10	1300	CLERK	1
30	950	CLERK	1
30	2850	MANAGER	1
20	6000	ANALYST	2
20	1900	CLERK	2
30	5600	SALESMAN	4

ANS: select sum(sal),max(sal),min(sal),avg(sal) from emp group by job;

OUTPUT:

[illegible]

--Q21. List the average salary from each job excluding manager.

ANS: select avg(sal) AVG\_SAL from emp where mgr is null group by job;

OUTPUT:

AVG\_SAL

5000

--Q22. List the average monthly salary for each job type within department.

ANS: select deptno,avg(sal) from emp group by deptno;

OUTPUT:

DEPTNO AVG(SAL)

30      1566.6666666666666666666666666666667

20      2175

10      2916.6666666666666666666666666666667

--Q23. List average salary for all departments employing more than five people.

ANS: select deptno,avg(sal) from emp group by deptno having count(deptno)>5;

OUTPUT:

DEPTNO	AVG(SAL)
--------	----------

```
30      1566.6666666666666666666666666666667
```

--Q24. List job of all the employees where maximum salary is greater than or equal to 3000.

ANS: select job from emp group by job having max(sal) >= 3000;

OUTPUT:

JOB

PRESIDENT

ANALYST

--Q25. List the total salary, maximum and minimum salary and the average salary of employees job wise for department number 20 and display only those rows having average salary greater than 1000.

ANS: select deptno,job,sum(sal),max(sal),min(sal),avg(sal) from emp where deptno in (select deptno from emp where deptno=20 and sal>1000)group by deptno,job;

OUTPUT:

DEPTNO JOB SUM(SAL) MAX(SAL) MIN(SAL) AVG(SAL)

20	CLERK	1900	1100	800	950
20	MANAGER	2975	2975	2975	2975
20	ANALYST	6000	3000	3000	3000