1. Create a database called COMPANY consisting of two tables - EMP & DEPT

EMP

Column name	Data type	Description
EMPNO	Number	Employee number
ENAME	Varchar	Employee name
JOB	Char	Designation
MGR	Number	Manager's Emp. number
HIREDATE	Date	Date of joining
SAL	Number	Basic Salary
COMM	Number	Commission
DEPTNO	Number	Department Number

DEPT

Column name	Data type	Description	
DEPTNO	Number	Department number	
DNAME	Varchar	Department name	
LOC	Varchar	Location of department	

Data for EMP

7369	Smith	Clerk	7902	17/12/80	800		20
7499	Allen	Salesman	7698	20/2/81	1600	300	30
7521	Ward	Salesman	7698	22/2/81	1250	500	30
7566	Jones	Manager	7839	2/4/81	2975		20
7654	Martin	Salesman	7698	28/9/81	1250	1400	30
7698	Blake	Manager	7839	1/5/81	2850		30
7782	Clark	Manager	7839	9/6/81	2450		10
7788	Scott	Analyst	7566	9/12/82	3000		20
7839	King	President		17/11/81	5000		10
7844	Turner	Salesman	7698	8/9/81	1500	0	30
7876	Adams	Clerk	7788	12/1/83	1100		20
7900	James	Clerk	7698	3/12/81	950		30
7902	Ford	Analyst	7566	4/12/81	3000		20
7934	Miller	Clerk	7782	23/1/82	1300		10

Data for DEPT table

10	Accounting	New York
20	Research	Dallas
30	Sales	Chicago
40	Operations	Boston

Perform the following queries on the tables just created:

- List the names of analysts and salesmen.
- List details of employees who have joined before 30 Sep 81.
- List names of employees who are not managers.
- List the names of employees whose employee numbers are 7369, 7521, 7839, 7934, 7788.
- List employees not belonging to department 30, 40, or 10.
- 6. List employee names for those who have joined between 30 June and 31 Dec. '81.
- List the different designations in the company.
- List the names of employees who are not eligible for commission.
- List the name and designation of the employee who does not report to anybody.
- List the employees not assigned to any department.
- List the employees who are eligible for commission.
- List employees hose names either start or end with "S".
- List names of employees whose names have "i" as the second character.
- List the number of employees working with the company.
- 15. List the number of designations available in the EMP table.
- List the total salaries paid to the employees.
- List the maximum, minimum and average salary in the company.
- List the maximum salary paid to a salesman.

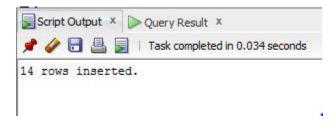
ANSWER

Table Creation:

```
create table emp_aman
(
  empno int not null,
  ename varchar(15) not null,
  job char(10) not null,
```

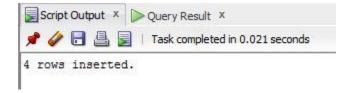
```
mgr int,
  hiredate date not null,
  sal int not null,
  comm int,
  deptno int not null,
  primary key(empno)
Script Output X Duery Result X
📌 🧳 뒴 🚇 屢 | Task completed in 0.025 seconds
table EMP_AMAN created.
create table dept_aman
  deptno int not null,
  dname varchar(15)not null,
  loc varchar(15),
  primary key(deptno)
Script Output X Deguery Result X
 📌 🥔 뒴 🖺 📕 | Task completed in 0.021 seconds
table DEPT AMAN created.
insert into emp aman values
(7369, 'Smith', 'Clerk', 7902, '1980-12-17', 800, null, 20),
(7499, 'Allen', 'Salesman', 7698, '1981-2-20', 1600, 300, 30),
(7521, 'Ward', 'Salesman', 7698, '1981-2-22', 1250, 500, 30),
(7566, 'Jones', 'Manager', 7839, '1981-4-2', 2975, null, 20),
```

(7654,'Martin','Salesman',7698,'1981-9-28',1250,1400,30),
(7698,'Blake','Manager',7839,'1981-5-1',2850,null,30),
(7782,'Clark','Manager',7839,'1981-6-9',2450,null,10),
(7788,'Scott','Analyst',7566,'1982-12-9',3000,null,20),
(7839,'King','President',null,'1981-11-17',5000,null,10),
(7844,'Turner','Salesman',7698,'1981-9-8',1500,0,30),
(7876,'Adams','Clerk',7788,'1983-1-12',1100,null,20),
(7900,'James','Clerk',7698,'1981-12-3',950,null,30),
(7902,'Ford','Analyst',7566,'1981-12-4',3000,null,20),
(7934,'Miller','Clerk',7782,'1982-1-23',1300,null,10)

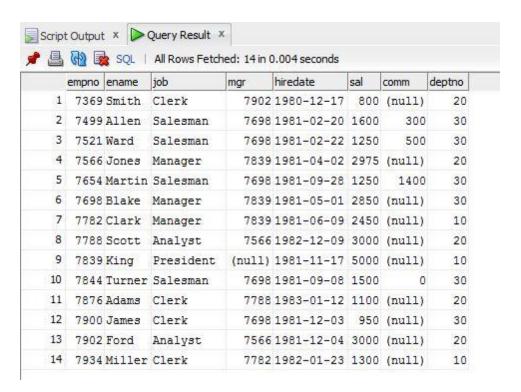


insert into dept aman values

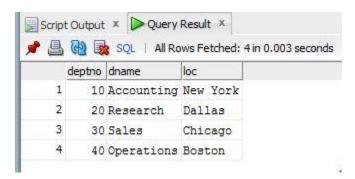
- (10,'Accounting','New York'),
- (20, 'Research', 'Dallas'),
- (30, 'Sales', 'Chicago'),
- (40, 'Operations', 'Boston')



Select *from emp aman



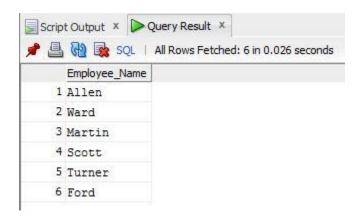
Select *from dept aman



Queries:

1. List the name of analyst and salesman.

select ename as Employee_Name from emp_aman where job in('analyst','salesman')

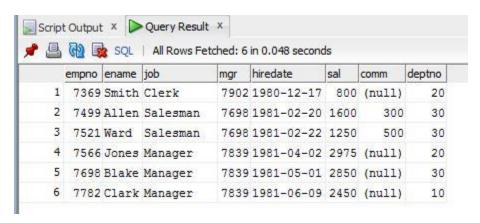


2. List details of employee who has joined before 30 Sep, 81.

select empno,ename,job,mgr,hiredate,sal,comm,deptno

from emp_aman

where hiredate< '1981-7-30'

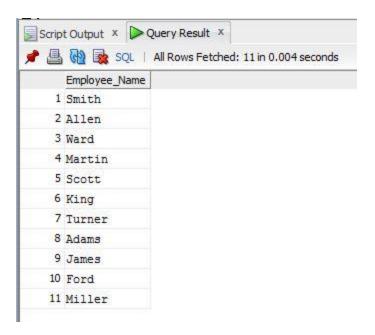


3. List names of employees who are not managers.

select ename as Employee_Name

from emp_aman

where job!='manager'

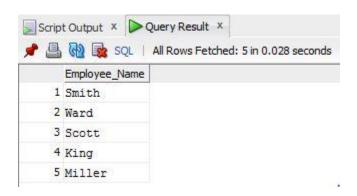


4. List the names of employees whose employee numbers are 7369, 7521, 7839, 7934, 7788.

select ename as Employee_Name

from emp_aman

where empno in(7369,7521,7839,7934,7788)

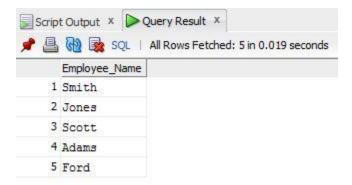


5. List employees not belonging to department 30, 40 or 10.

select ename as Employee_Name

from emp_aman

where deptno not in(30,40,10)

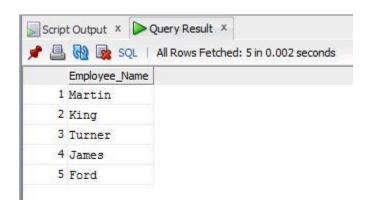


6. List employees name for those who have joined between 30 June and 31 Dec 81.

select ename as Employee_Name

from emp_aman

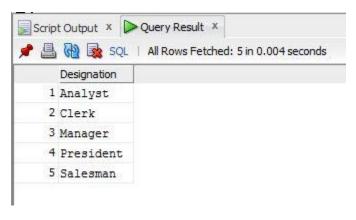
where hiredate between '1981-6-30' and '1981-12-31'



7. List the different designations in the company.

select distinct job as Designation

from emp_aman

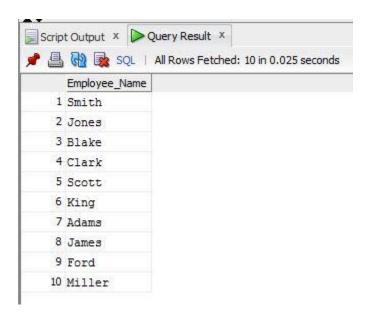


8. List the names of employees who are not eligible for commission.

select ename as Employee Name

from emp_aman

where comm is null



9. List the name and designation of the employee who does not report to anybody.

select ename as Employee_Name, job as Designation

from emp aman

where mgr is null

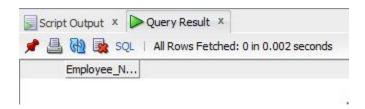


10. List the employees not assigned to any department.

select ename as Employee_Name

from emp_aman

where deptno is null

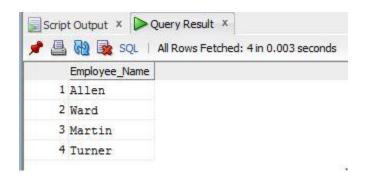


11. List the employees who are eligible for commission.

select ename as Employee_Name

from emp aman

where comm is not null

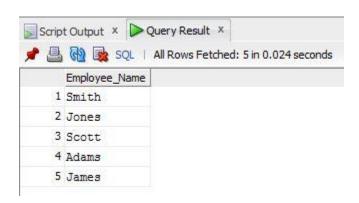


12. List the employees whose name either start or end with 's'.

select ename as Employee_Name

from emp_aman

where ename like '%s%'

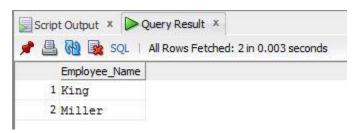


13. List names of employee whose name have 'i' as the second character.

select ename as Employee_Name

from emp_aman

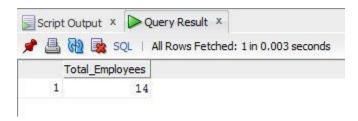
where ename like '_i%'



14. List number of employees working with the company.

select count(ename) as Total_Employees

from emp aman



15. List the number of designations available in the emp table.

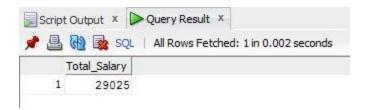
select count(distinct job) as Total_Designations

from emp aman



16. List the total salaries paid to the employees.

select sum(sal) as Total_Salary from emp_aman



17. List the maximum, minimum and average salary in the company.

select max(sal) as Maximum_Salary, min(sal) as Minimum_Salary, avg(sal) as

Average_Salary

from emp_aman



18. List the maximum salary paid to a salesman.

select max(sal) as maximum_salary

from emp_aman

where job='salesman'

