LAB Assignment-2

1.Fetch all records from employee.

create table employee (Fname varchar2(10), Minit varchar2(1), Lname varchar2(10), Ssn int, Bdate varchar2(20), Address varchar2(50), Sex varchar2(1), Salary int, Super_ssn int, Dno int)

insert into employee values ('John','B','Smith',123456789,'1965-01-09','731 Fondren, Houston, TX','M',30000,333445555,5);

insert into employee values ('Franklin','T','Wong',333445555,'1955-12-08','638 Voss, Houston, TX','M',40000,888665555,5);

insert into employee values ('Alicia','J','Zelaya',999887777,'1968-01-19','3321 Castle, Spring, TX','F',25000,987654321,4);

insert into employee values ('Jennifer','S','Wallace',987654321,'1941-06-20','291 Berry, Bellaire, TX','F',43000,888665555,4);

insert into employee values ('Ramesh','K','Narayan',666884444,'1962-09-15','975 Fire Oak, Humble, TX','M',38000,333445555,5);

insert into employee values ('Joyce','A','English',453453453,'1972-07-31','5631 Rice, Houston, TX','F',25000,333445555,5);

insert into employee values ('Ahmad','V','Jabbar',987987987,'1969-03-29','980 Dallas, Houston, TX','M',25000,987654321,4);

insert into employee (Fname , Minit , Lname , Ssn , Bdate , Address , Sex , Salary , Dno) values ('James','E','Borg',888665555,'1937-11-10','450 Stone, Houston, TX','M', 55000, 1);

select * from employee;

Output:

FNAME	MINIT	LNAME	SSN	BDATE	ADDRESS	SEX	SALARY	SUPER_SSN	DNO
John	B	Smith	123456789	1965-01-09	731 Fondren, Houston, TX	M	30000	333445555	5
Franklin	T	Wong	333445555	1955-12-08	638 Voss, Houston, TX	M	40000	888665555	5
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle, Spring, TX	F	25000	987654321	4
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Bellaire, TX	F	43000	888665555	4
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble, TX	M	38000	333445555	5
Joyce	A	English	453453453	1972-07-31	5631 Rice, Houston, TX	F	25000	333445555	5
Ahmad	V	Jabbar	987987987	1969-03-29	980 Dallas, Houston, TX	M	25000	987654321	4
James	E	Borg	888665555	1937-11-10	450 Stone, Houston, TX	M	55000	-	1

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8 rows selected.

2.Find the average, minimum, maximum salary from employee table.

Average:

Select Avg(Salary)

from employee

AVG(SALARY)
35125

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Minimum:

Select Min(Salary)

from employee

MIN(SALARY)
25000

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Maximum:

Select Max(Salary)

from employee

MAX(SALARY)
55000

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3.Find the cumulative salary for all male and female employee separately.

Select Sum(Salary)

from employee

Group by Sex

Output:

SUM(SALARY)
188000
93000

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2 rows selected.

4.Find the count of employees working for each department.

Select Count(Fname)

from employee

Group by(Dno)

Output:

COUNT(FNAME)
1
4
3

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3 rows selected.

5. Find the total project hours for each project.

Table for Works_On:

create table works_on (Essn int, Pno int, Hours int)

insert into works_on values (123456789,1,32.5);

insert into works_on values (123456789,2,7.5);

insert into works_on values (666884444,3,40.0);

```
insert into works_on values (453453453,1,20.0);
insert into works_on values (453453453,2,20.0);
insert into works_on values (333445555,2,10.0);
insert into works_on values (333445555,3,10.0);
insert into works_on values (333445555,10,10.0);
insert into works_on values (333445555,20,10.0);
insert into works_on values (999887777,30,30.0);
insert into works_on values (999887777,10,10.0);
insert into works_on values (987987987,10,35.0);
insert into works_on values (987987987,30,5.0);
insert into works_on values (987654321,30,20.0);
insert into works_on values (987654321,20,15.0);
insert into works_on (Essn , Pno) values (888665555,20);
select * from works_on;
```

Output:

ESSN	PNO	HOURS
123456789	1	33
123456789	2	8
666884444	3	40
453453453	1	20
453453453	2	20
333445555	2	10
333445555	3	10
333445555	10	10
333445555	20	10
999887777	30	30
999887777	10	10
987987987	10	35
987987987	30	5
987654321	30	20
987654321	20	15
888665555	20	-

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16 rows selected.

Finding total no of hours for each project:

```
select sum(Hours)
from works_on
Group by(Pno)
```

Output:

SUM(HOURS)
53
38
55
55
50
25

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6 rows selected.

6. How many male and female dependents are there in this organization?

Table for Dependents:

create table dependents (Essn int, Dependent_name varchar2(10), Sex varchar2(1), Bdate varchar2(20), Relationship varchar2(10))

insert into dependents values (333445555,'Alice','F','1986-04-05','Daughter');

insert into dependents values (333445555,'Theodore','M','1983-10-25','Son');

insert into dependents values (333445555,'Joy','F','1958-05-03','Spouse');

insert into dependents values (987654321,'Abner','M','1942-02-28','Spouse');

insert into dependents values (123456789,'Michael','M','1988-01-04','Son');

insert into dependents values (123456789,'Alice','F','1988-12-30','Daughter');

insert into dependents values (123456789,'Elizabeth','F','1967-05-05','Spouse');

select * from dependents;

Output:

ESSN	DEPENDENT_NAME	SEX	BDATE	RELATIONSHIP
333445555	Alice	F	1986-04-05	Daughter
333445555	Theodore	M	1983-10-25	Son
333445555	Joy	F	1958-05-03	Spouse
987654321	Abner	M	1942-02-28	Spouse
123456789	Michael	M	1988-01-04	Son
123456789	Alice	F	1988-12-30	Daughter
123456789	Elizabeth	F	1967-05-05	Spouse

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7 rows selected.

Male and Female Dependents:

Select count(Dependent_name)

from dependents

Group by(Sex)

Output:

COUNT(DEPENDENT_NAME)
3
4

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2 rows selected.

7. List the project names, running under department 5, 1.

Table for Project:

create table projects (Pname varchar2(20), Pnumber int, Plocation varchar2(10), Dnum int)

```
insert into projects values ('Product X',1,'Bellaire',5);
insert into projects values ('Product Y',2,'Sugarland',5);
insert into projects values ('Product Z',3,'Houston',5);
insert into projects values ('Computerization',10,'Stafford',4);
insert into projects values ('Reorganization',20,'Houston',1);
insert into projects values ('Newbenefits',30,'Stafford',4);
select * from projects;
```

Output:

PNAME	PNUMBER	PLOCATION	DNUM
Product X	1	Bellaire	5
Product Y	2	Sugarland	5
Product Z	3	Houston	5
Computerization	10	Stafford	4
Reorganization	20	Houston	1
Newbenefits	30	Stafford	4

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6 rows selected.

Project names under Department 5,1:

```
select Pname
from projects
where Dnum=5 OR Dnum=1
```

Output:

PNAME
Product X
Product Y
Product Z
Reorganization

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4 rows selected.

8. List the departments spread over multiple locations.

Table for Dept_Locations:

```
create table dept_locations(Dnumber int,Dlocation varchar2(10))
insert into dept_locations values(1,'Houston');
insert into dept_locations values(4,'Stafford');
insert into dept_locations values(5,'Bellaire');
insert into dept_locations values(5,'Sugarland');
insert into dept_locations values(5,'Houston');
select * from dept_locations;
```

DNUMBER	DLOCATION
1	Houston
4	Stafford
5	Bellaire
5	Sugarland
5	Houston

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5 rows selected.

Department spread over multiple locations:

```
select Dnumber
from dept_locations
group by Dnumber
having count(*) >1
```

Output:

DNUMBER
5

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