Experiment No: 7 (A)

For a given set of relation schemes, create tables and perform the following:

1) Simple Queries, Simple Queries with Aggregate functions, Queries with Aggregate functions (group by and having clause)

2) Join Queries- Inner Join, Outer Join Subqueries- With IN clause, With EXISTS clause

Consider Employee table

EMPNO	EMP_NAME	DEPT	SALARY	DOJ	BRANCH
E101	Amit	oduction	45000	12-Mar-00	Bangalore
E102	Amit	HR	70000	03-Jul-02	Bangalore
E103	sunita	anagemer	120000	11-Jan-01	mysore
E105	sunita	IT	67000	01-Aug-01	mysore
E106	mahesh	Civil	145000	20-Sep-03	Mumbai

Perform the following

1. **Display all the fields of employee table**
2. **Retrieve employee number and their salary**
3. **Retrieve average salary of all employee**
4. **Retrieve number of employee**
5. **Retrieve distinct number of employee**
6. **Retrieve total salary of employee group by employee name and count similar names**
7. **Retrieve total salary of employee which is greater than >120000**
8. **Display name of employee in descending order**
9. **Display details of employee whose name is AMIT and salary greater than 50000;**

1. Display all the fields of employee table

```
SQL> select * from employee;
```

EMPNO	EMP_NAME	DEPT	SALARY	DOJ	BRANCH
E101	Amit	Production	45000	12-MAR-00	Bangalore
E102	Amit	HR	70000	03-JUL-02	Bangalore
E103	sunita	Management	120000	11-JAN-01	mysore
E105	sunita	IT	67000	01-AUG-01	mysore
E106	mahesh	Civil	145000	20-SEP-03	Mumbai

2. Retrieve employee number and their salary

```
SQL> select empno, salary from employee;
EMPNO    SALARY
----- ----------
E101      45000
E102      70000
E103     120000
E105      67000
E106     145000
```

3. Retrieve average salary of all employee

```
SQL> select  avg(salary) from employee;

AVG(SALARY)
-----------
    89400
```

4. Retrieve number of employee

```
SQL> select count(*) from employee;

 COUNT(*)
----------
       5
```

5. Retrieve distinct number of employee

```
SQL> select count(DISTINCT emp_name) from employee;
COUNT(DISTINCTEMP_NAME)
-----------------------
                3
```

6. Retrieve total salary of employee group by employee name and count similar names

```
SQL> SELECT EMP_NAME, SUM(SALARY),COUNT(*) FROM EMPLOYEE
  2  GROUP BY(EMP_NAME);

EMP_NAME                       SUM(SALARY)  COUNT(*)
------------------------------ -----------  ----------
mahesh                         145000       1
sunita                         187000        2
Amit                            115000       2
```

7. Retrieve total salary of employee which is greater than >120000

```
SQL> SELECT EMP_NAME, SUM(SALARY) FROM EMPLOYEE
  2  GROUP BY(EMP_NAME)
  3  HAVING SUM(SALARY)>120000;

EMP_NAME                       SUM(SALARY)
------------------------------ -----------
mahesh                         145000
sunita                         187000
```

8. **Display name of employee in descending order**

```
SQL> select emp_name from employee
  2  order by emp_name desc;

EMP_NAME
------------------------------
sunita
sunita
mahesh
Amit
Amit
```

9. **Display details of employee whose name is AMIT and salary greater than 50000;**

```
SQL> select * from employee
  2  where emp_name='Amit' and salary>50000;

EMPNO      EMP_NAME        DEPT      SALARY      DOJ         BRANCH
E102        Amit           HR        70000       03-JUL-02   Bangalore
```
