

PRACTICAL: -9.

Aim: - implement the grouping clauses group by, order by & having.

SQL> create table customers (cid int, cname varchar (50), country varchar (50));

```
SQL> create table customers(cid int, cname varchar(50), country varchar(50));  
Table created.  
SQL> desc table customers;  
Usage: DESCRIBE [schema.]object[@db_link]  
SQL> desc customers;  
Name                               Null?      Type  
-----  
CID                                NUMBER(38)  
CNAME                             VARCHAR2(50)  
COUNTRY                           VARCHAR2(50)
```

SQL> insert into customers values (1, 'rupa', 'India');

SQL> insert into customers values (2, 'rasi', 'India');

SQL> insert into customers values (3, 'Ram u', 'India');

SQL> insert into customers values (4, 'raja', 'Japan');

SQL> insert into customers values (5, 'Uma', 'Japan');

SQL> insert into customers values (6, 'Amit', 'Japan');

SQL> insert into customers values (7, 'Ravi', 'Japan');

SQL> insert into customers values (8, 'Upendra', 'USA');

SQL> insert into customers values (9, 'Bose', 'USA');

SQL> insert into customers values (10, 'Surya' , 'UK');

SQL> insert into customers values (11, 'Srihari', 'UK');

SQL> select * from customers;		CID CNAME	

CID CNAME		COUNTRY	
-----		-----	
COUNTRY			

india	1 rupa	japan	7 ravi
india	2 rasi	USA	8 upendra
india	3 ramu	USA	9 bose
CID CNAME		CID CNAME	
-----		-----	
COUNTRY		COUNTRY	
-----		-----	
japan	4 raju	UK	10 surya
japan	5 uma	UK	11 srihari
japan	6 amit		

SQL> select count(cid), country from customers group by country;

SQL> select count(cid),country from customers group by country;	
COUNT(CID)	COUNTRY
-----	-----
3	india
4	japan
2	USA
2	UK

SQL> select count(cid), country from customers group by country HAVING COUNT (cid) <3;

SQL> select count(cid),country from customers group by country HAVING COUNT(cid) <3;	
COUNT(CID)	COUNTRY
-----	-----
2	USA
2	UK

SQL> select count(cid), country from customers group by country HAVING COUNT(cid) >=2;

SQL> select count(cid),country from customers group by country HAVING COUNT(cid) >=2;	
COUNT(CID)	COUNTRY
-----	-----
3	india
4	japan
2	USA
2	UK

SQL> select cid, cname from customers order by cid asc;

```
SQL> select cid , cname from customers order by cid asc;
```

CID	CNAME
1	rupa
2	rasi
3	ramu
4	raju
5	uma
6	amit
7	ravi
8	uppendra
9	bose
10	surya
11	srihari

```
11 rows selected.
```

```
SQL> select cid,cname from customers order by cid desc;
```

```
SQL> select cid , cname from customers order by cid desc;
```

CID	CNAME
11	srihari
10	surya
9	bose
8	uppendra
7	ravi
6	amit
5	uma
4	raju
3	ramu
2	rasi
1	rupa

```
11 rows selected.
```

```
SQL> select cid,cname from customers order by cid asc,cname desc;
```

```
SQL> select cid , cname from customers order by cid asc,cname desc;
```

CID	CNAME
1	rupa
2	rasi
3	ramu
4	raju
5	uma
6	amit
7	ravi
8	uppendra
9	bose
10	surya
11	srihari

```
11 rows selected.
```