**DBMS ASSIGNMENT**

Name: ANIK DUTTA

Enrollment Number: 2011200001007

Registration Number:  20001001868

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1. Create and insert given data in table customer.**

create table customer (cust\_id int ,

cust\_fname varchar2(100) ,

cust\_lname varchar2(100) ,

territory varchar2 (100) ,

cred\_lmt int ,

mngr\_id int ,

marital\_status varchar2(100) ,

sex varchar2(30) ,

income int );

insert into customer(cust\_id , cust\_fname , cust\_lname , territory , cred\_lmt , mngr\_id , marital\_status , sex , income) values

(01, 'Rahul','Singh','India', 10000 , 112 , 'Single' , 'Male' , 65000);

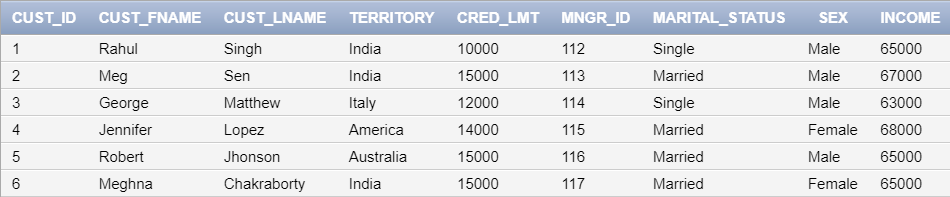
(02, 'Meg','Sen','India', 15000 , 113 , 'Married' , 'Male' , 67000);

(03, 'George','Matthew','Italy', 12000 , 114 , 'Single' , 'Male' , 63000);

(04, 'Jennifer','Lopez','America', 14000 , 115 , 'Married' , 'Female' , 68000);

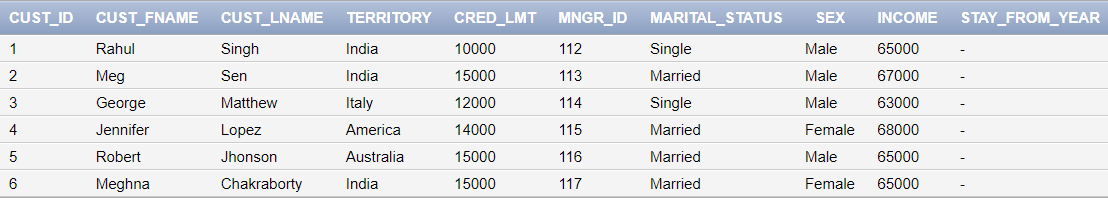
(05, 'Robert','Jhonson','Australia', 15000 , 116 , 'Married' , 'Male' , 65000);

(06, 'Meghna','Chakraborty','India', 15000 , 117 , 'Married' , 'Female' , 65000);



**2. Alter table and Add column stay\_from\_year**

alter table add stay\_from\_year int ;



**3. Set value of stay\_from\_year as 2001 for Italy/America and 2003 otherwise**

update customer

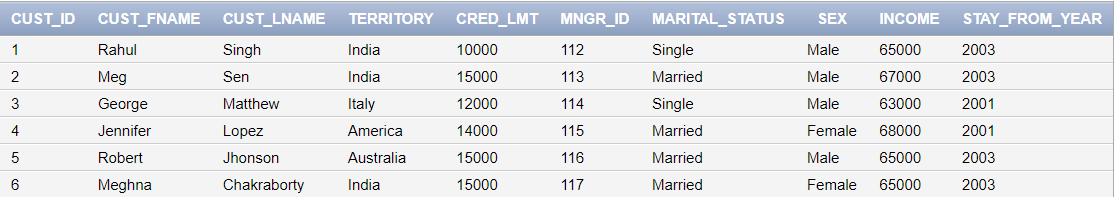
set stay\_from\_year = 2001

where territory in ('Italy' , 'America');

update customer

set stay\_from\_year = 2003

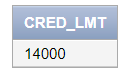
where territory not in ('Italy' , 'America');



**4. Display credit limit attribute for America**

select cred\_lmt from customer

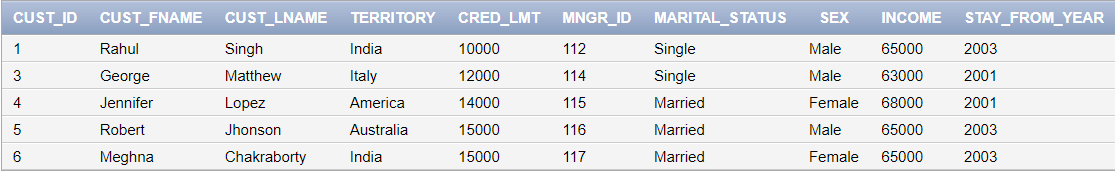
where territory in ('America');



**5. Delete the record corresponding to Meg Sen**

delete from customer

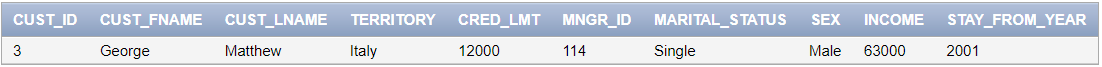
where cust\_fname = 'Meg' and cust\_lname = 'Sen' ;



**6.Show all attributes for Italy// Show all data in the territory Italy**

select \* from customer

where territory in ('Italy');

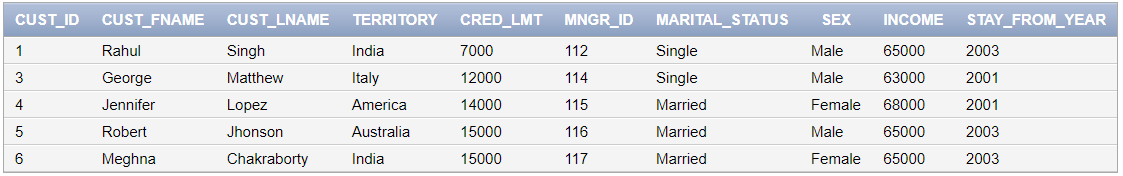


**7. If territory is India and status is Single set value of credit to 7000**

update customer

set cred\_lmt = 7000

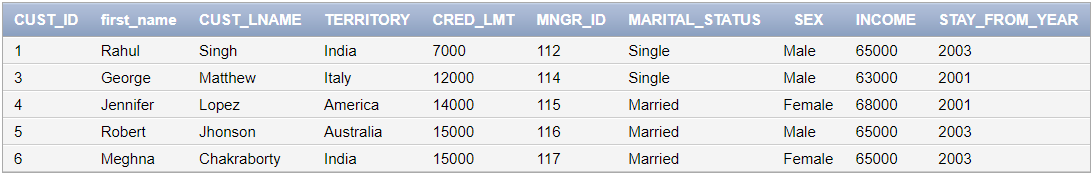
where territory in ('India') and marital\_status = 'Single' ;



**8. Rename cust\_fname to first\_name**

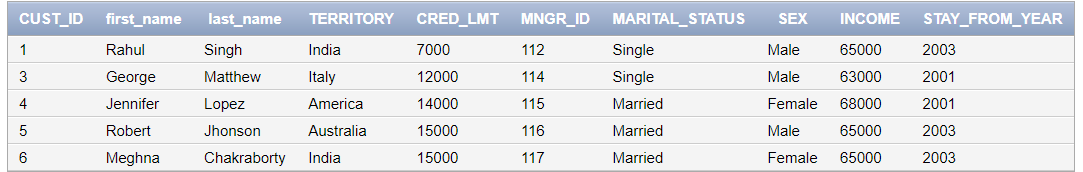
alter table customer

rename column "CUST\_FNAME" to "first\_name";

****

**9. Rename cust\_lname to last\_name**

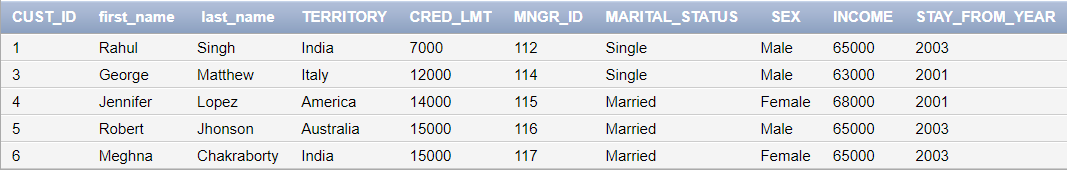
alter table customer

rename column "CUST\_LNAME" to "last\_name";

**10. Create table cust1 from the old table customer(copy structure as well as data using CTAS statement).**

create table cust1 as

select \*from customer;



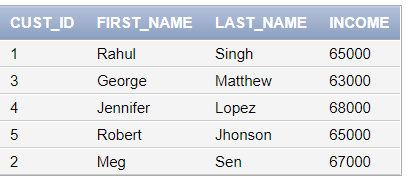
**11. Create tables cust2 without values of cust1 using CTAS statement.**

create table cust2 as

select \*from customer where 1=2;

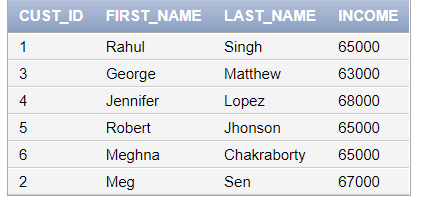
**12. Create tables cust3 with attributes cust\_id,cust\_fname,cust\_lname,income from old customer table only 5 rows.(using CTAS statement).**

create table cust3 as (select cust\_id, first\_name, last\_name, income from customer where cust\_id<=5);



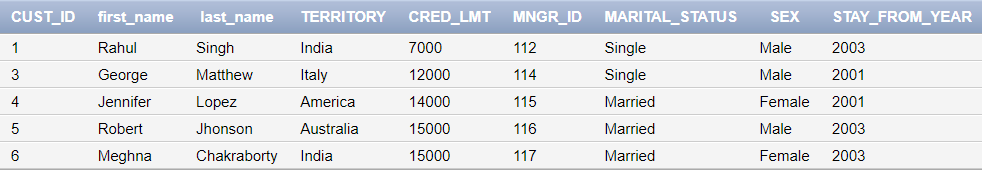
**13.Create tables cust4 with attributes name customer\_id,firstname,lastname, income from old customer table(using CTAS statement).**

create table cust4 as (select cust\_id, first\_name, last\_name, income from customer);



**14. Drop column income from cust1.**

alter table cust1 drop column income;



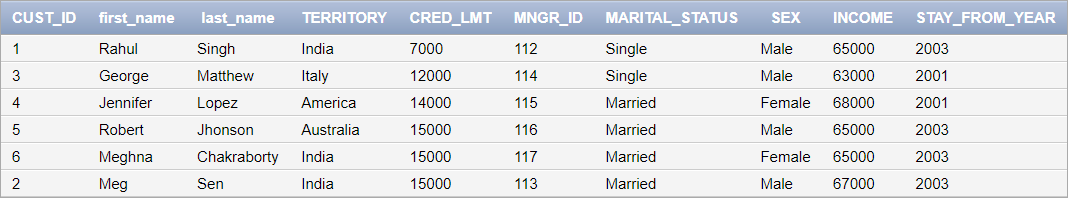
**15. Rename table cust1 to cust\_one**

alter table cust1 rename to cust\_one;

**16. Insert values into cust2 table from customer table**

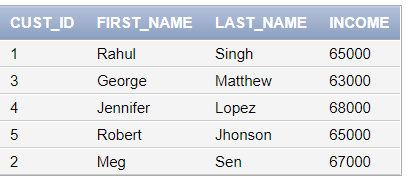
insert into cust2

select \* from customer;

****

**17. Insert values into cust3 table with attributescust\_ id, f\_name, l\_name,Income from customer table where income > 50000**

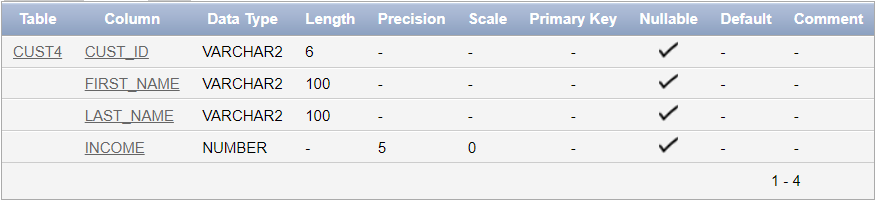
insert into cust3 (select cust\_id, first\_name, last\_name, income from customer where income>50000);



**18. alter the table cust4 change cust id to varchar(6) and income to number(5)**

alter table cust4 modify cust\_id varchar(6);

alter table cust4 modify income number(5);

****

**19.Add new attribute mngr\_name to cust4 and insert 5 records**

alter table cust4 add mngr\_name varchar2(100);

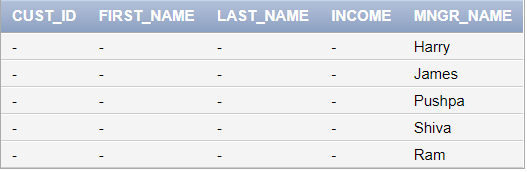
insert into cust4 (mngr\_name) values ('Harry');

insert into cust4 (mngr\_name) values ('James');

insert into cust4 (mngr\_name) values ('Pushpa');

insert into cust4 (mngr\_name) values ('Shiva');

insert into cust4 (mngr\_name) values ('Ram');



**20. Add attribute territory to cust4**

alter table cust4 add territory varchar2(100);



**21. Drop table cust3 and then bring it back.**

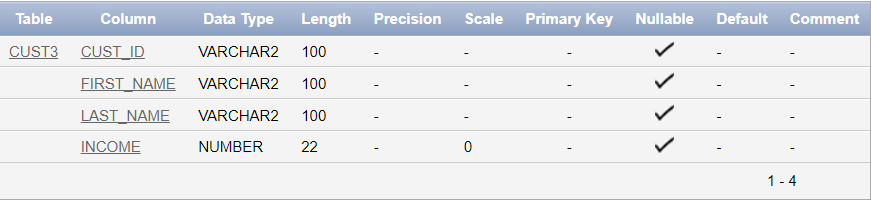
drop table cust3;

flashback table cust3 to before drop;

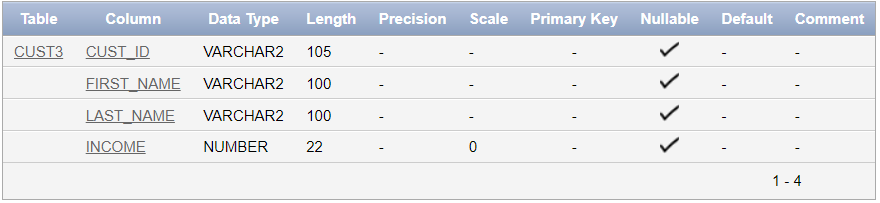
**22. Increase the size of the column custid by 5.**

alter table cust3 modify cust\_id varchar(105);

**Old column custid size =100**



**New column custid size =105**



23. **Suppose the customer with id no C63 has changed her last name & now it is just same as the customer with id no C68.**

SELECT last\_name, COUNT(last\_name)

FROM cust3

GROUP BY last\_name

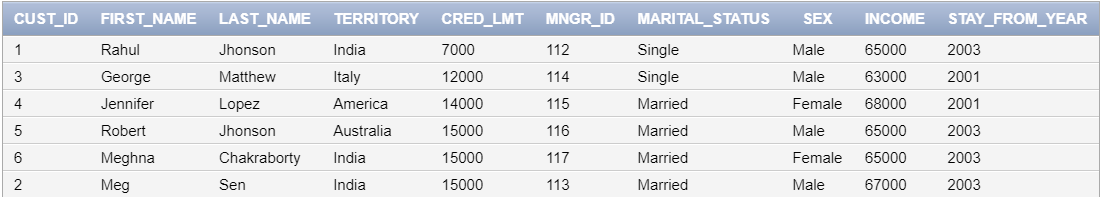
HAVING COUNT(last\_name) > 1



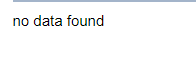
**24. Update customer set lname=(select lname from customer where cid=C63) where cid=C68.**

update customer set last\_name = (select last\_name from customer where cust\_id =5)

where cust\_id =1;

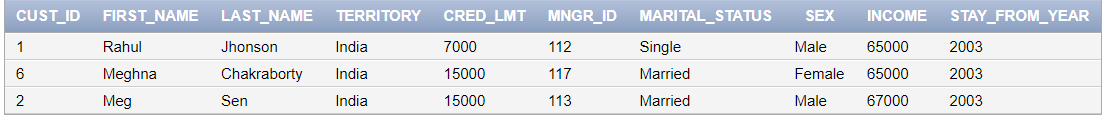


**25. Display the records where territory=America & crd\_lmt=25000.**



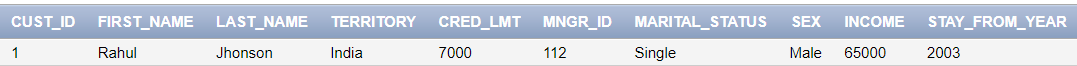
**26. Display the records of all Indian customers whose income>20000.**

select \* from customer where territory='India' and income>20000;

****

**27.** **Display the name of the customer having crd\_lmt between 2000 and 7000.**

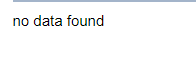
select \* from customer where cred\_lmt between 2000 and 7000;



**28. Display the records of the customers having income 20000,24000,300,4500 using only one query.**

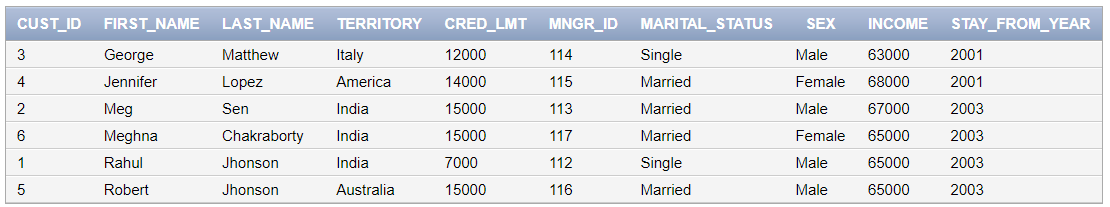
select \* from customer

where income in (20000,24000,300,4500);



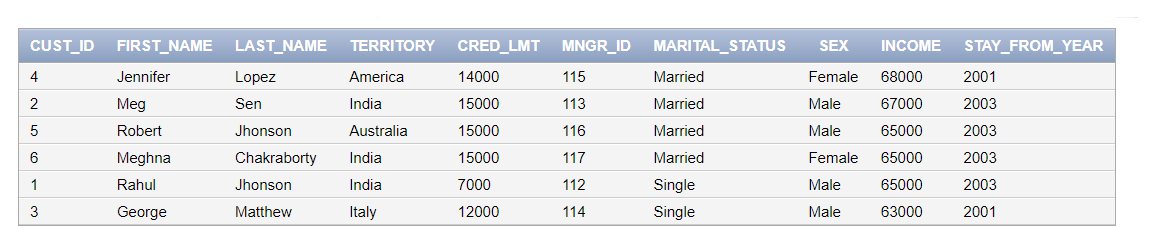
**29. Display the records in ascending order of first name**

select \* from customer order by first\_name ;



**30. Display the records in descending order of income**

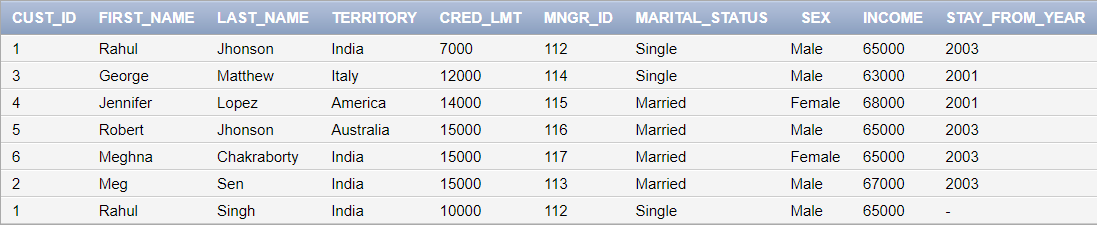
select \* from customer order by income desc ;



**31. Insert a duplicate record and display all the records.**

insert into customer(cust\_id , first\_name , last\_name , territory , cred\_lmt , mngr\_id , marital\_status , sex , income) values

(01, 'Rahul','Singh','India', 10000 , 112 , 'Single' , 'Male' , 65000);



**32. Suppose your friend wants to select a name from the names of the customers. Show the different names of the student.**

select distinct first\_name, last\_name from customer;

