## **Assignment 1:** Introduction to DDL and basic DML Commands

| cust_id | cust_fname | cust_lname | territory | cred_limt | mngr_id | marital_status | income |
|---|---|---|---|---|---|---|---|
| | | | America | | | | |
| | Meg | Sen | Italy | | | | |
| | | | India | 5000 | | Single | |

1.Create and insert given data in table customer.

**Query:**
```
create table customer(
        cust_id number,
        cust_fname varchar2(10),
        cust_lname varchar2(10),
        territory varchar2(10),
         cred_limit number(10),
        mngr_id number(10),
        marital_status varchar2(10),
        income number(20)
);

insert into
customer(cust_id,cust_fname,cust_lname,territory,cred_limit,mngr_id,marital_status,income) values
('','','','America','','','','');

insert into
customer(cust_id,cust_fname,cust_lname,territory,cred_limit,mngr_id,marital_status,income) values
('','Meg','Sen','Italy','','','','');

insert into
customer(cust_id,cust_fname,cust_lname,territory,cred_limit,mngr_id,marital_status,income) values
('','','','India','5000','','single','');
```

Output:

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```
select * from customer
```

| CUST_ID | CUST_FNAME | CUST_LNAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | INCOME |
|---------|------------|------------|-----------|------------|---------|----------------|--------|
| – | – | – | America | – | – | – | – |
| – | Meg | Sen | Italy | – | – | – | – |
| – | – | – | India | 5000 | – | single | – |

```
3 rows selected.
```

## 2. Alter table and Add column stay_from_year.

**Query**:
> ALTER TABLE customer ADD stay_from_year varchar2(10)

**Output:**

```
select * from customer
```

| CUST_ID | CUST_FNAME | CUST_LNAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | INCOME | STAY_FROM_YEAR |
|---------|------------|------------|-----------|------------|---------|----------------|--------|----------------|
| – | – | – | America | – | – | – | – | – |
| – | Meg | Sen | Italy | – | – | – | – | – |
| – | – | – | India | 5000 | – | single | – | – |

```
3 rows selected.
```

## 3. Set value of stay_from_year as 2001 for America

**Query:**
> UPDATE customer SET stay_from_year='2001' where territory='America'

**Output:**

```
select * from customer
```

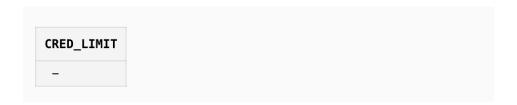| CUST_ID | CUST_FNAME | CUST_LNAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | INCOME | STAY_FROM_YEAR |
|---------|------------|------------|-----------|------------|---------|----------------|--------|----------------|
| – | – | – | America | – | – | – | – | 2001 |
| – | Meg | Sen | Italy | – | – | – | – | – |
| – | – | – | India | 5000 | – | single | – | – |

```
3 rows selected.
```

## 4. Display credit limit attribute for America

**Query:**

select cred_limit from customer where territory='America'

**Output:**

```
select cred_limit from customer where territory='America'
```

| CRED_LIMIT |
|------------|
| – |

6. Show all data in the territory Italy

**Query:**

select * from customer where territory='Italy'

**Output:**

```
select * from customer where territory='Italy'
```

| CUST_ID | CUST_FNAME | CUST_LNAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | INCOME | STAY_FROM_YEAR |
|---------|------------|------------|-----------|------------|---------|----------------|--------|----------------|
| – | Meg | Sen | Italy | – | – | – | – | – |

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

**Query:**

update customer set cred_limit=7000 where territory='India' and marital_status='single'

**Output:**

```
select * from customer
```

| CUST_ID | CUST_FNAME | CUST_LNAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | INCOME | STAY_FROM_YEAR |
|---------|------------|------------|-----------|------------|---------|----------------|--------|----------------|
| – | – | – | America | – | – | – | – | 2001 |
| – | Meg | Sen | Italy | – | – | – | – | – |
| – | – | – | India | 7000 | – | single | – | – |

```
3 rows selected.
```

8. Rename cust_fname to first_name

**Query:**

ALTER TABLE customer RENAME COLUMN cust_fname TO first_name

**Output:**

```
select * from customer
```

| CUST_ID | FIRST_NAME | CUST_LNAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | INCOME | STAY_FROM_YEAR |
|---------|------------|------------|-----------|------------|---------|----------------|--------|----------------|
| – | – | – | America | – | – | – | – | 2001 |
| – | Meg | Sen | Italy | – | – | – | – | – |
| – | – | – | India | 7000 | – | single | – | – |

```
3 rows selected.
```

## 9. Rename cust_lname to last_name

**Query:**

ALTER TABLE customer RENAME COLUMN cust_lname TO last_name

**Output:**

```
select * from customer
```

| CUST_ID | FIRST_NAME | LAST_NAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | INCOME | STAY_FROM_YEAR |
|---------|------------|-----------|-----------|------------|---------|----------------|--------|----------------|
| – | – | – | America | – | – | – | – | 2001 |
| – | Meg | Sen | Italy | – | – | – | – | – |
| – | – | – | India | 7000 | – | single | – | – |

```
3 rows selected.
```

## 10. Drop column income from customer.

**Query:**

ALTER TABLE customer DROP COLUMN income

**Output:**

```
select * from customer
```

| CUST_ID | FIRST_NAME | LAST_NAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | STAY_FROM_YEAR |
|---------|------------|-----------|-----------|------------|---------|----------------|----------------|
| – | – | – | America | – | – | – | 2001 |
| – | Meg | Sen | Italy | – | – | – | – |
| – | – | – | India | 7000 | – | single | – |

```
3 rows selected.
```

## 11. Rename table customer to cust_one

**Query:**

RENAME customers To cust_one

**Output:**

```
desc cust_one
```

```
TABLE CUST_ONE
```

| Column | Null? | Type |
|---|---|---|
| CUST_ID | — | VARCHAR2(6) |
| FIRST_NAME | — | VARCHAR2(10) |
| LAST_NAME | — | VARCHAR2(10) |
| TERRITORY | — | VARCHAR2(10) |
| CRED_LIMIT | — | NUMBER(10,0) |
| MNGR_ID | — | NUMBER(10,0) |
| MARITAL_STATUS | — | VARCHAR2(10) |
| STAY_FROM_YEAR | — | VARCHAR2(10) |

## 12. alter the table **customer** change cust id to varchar2(6) .
**Query:**

ALTER TABLE cust_one MODIFY cust_id varchar2(6)

**Output:**

```
desc cust_one
```

```
TABLE CUST_ONE
```

| Column | Null? | Type |
|---|---|---|
| CUST_ID | — | VARCHAR2(6) |
| FIRST_NAME | — | VARCHAR2(10) |
| LAST_NAME | — | VARCHAR2(10) |
| TERRITORY | — | VARCHAR2(10) |
| CRED_LIMIT | — | NUMBER(10,0) |
| MNGR_ID | — | NUMBER(10,0) |
| MARITAL_STATUS | — | VARCHAR2(10) |
| STAY_FROM_YEAR | — | VARCHAR2(10) |

## 13. Add new attribute mngr_name to **customer** and insert 2 records
**Query:**

ALTER TABLE cust_one ADD mngr_name varchar2(10);

insert into

cust_one(cust_id,first_name,last_name,territory,cred_limit,mngr_id,marital_status,stay_from_year,mngr_name) values ('','','','','','','','suvodeep');

insert into

cust_one(cust_id,first_name,last_name,territory,cred_limit,mngr_id,marital_status,stay_from_year,mngr_name) values ('','','','','','','','amlan');

select * from cust_one

**Output:**

```
select * from cust_one
```

| CUST_ID | FIRST_NAME | LAST_NAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | STAY_FROM_YEAR | MNGR_NAME |
|---------|-----------|-----------|-----------|-----------|---------|----------------|----------------|-----------|
| - | - | - | America | - | - | - | 2001 | - |
| - | Meg | Sen | Italy | - | - | - | - | - |
| - | - | - | India | 7000 | - | single | - | - |
| - | - | - | - | - | - | - | - | suvodeep |
| - | - | - | - | - | - | - | - | amlan |

14. Add attribute age to **customer**

**Query:**

alter table cust_one add age number(3)

**Output:**

```
TABLE CUST_ONE
```

| Column | Null? | Type |
|--------|-------|------|
| CUST_ID | – | VARCHAR2(6) |
| FIRST_NAME | – | VARCHAR2(10) |
| LAST_NAME | – | VARCHAR2(10) |
| TERRITORY | – | VARCHAR2(10) |
| CRED_LIMIT | – | NUMBER(10,0) |
| MNGR_ID | – | NUMBER(10,0) |
| MARITAL_STATUS | – | VARCHAR2(10) |
| STAY_FROM_YEAR | – | VARCHAR2(10) |
| MNGR_NAME | – | VARCHAR2(10) |
| AGE | – | NUMBER(3,0) |

```
Download CSV
10 rows selected.
```

15. Drop table customer and then bring it back.

**Query:**

drop table cust_one

flashback table cust_one to before drop

**Output:**

TABLE CUST_ONE

| Column | Null? | Type |
|---|---|---|
| CUST_ID | – | VARCHAR2(6) |
| FIRST_NAME | – | VARCHAR2(10) |
| LAST_NAME | – | VARCHAR2(10) |
| TERRITORY | – | VARCHAR2(10) |
| CRED_LIMIT | – | NUMBER(10,0) |
| MNGR_ID | – | NUMBER(10,0) |
| MARITAL_STATUS | – | VARCHAR2(10) |
| STAY_FROM_YEAR | – | VARCHAR2(10) |
| MNGR_NAME | – | VARCHAR2(10) |
| AGE | – | NUMBER(3,0) |

Download CSV
10 rows selected.

5. Delete the record corresponding to Meg Sen

**Query:**

DELETE FROM cust_one WHERE first_name='Meg' and last_name='Sen'

Output:

select * from cust_one

| CUST_ID | FIRST_NAME | LAST_NAME | TERRITORY | CRED_LIMIT | MNGR_ID | MARITAL_STATUS | STAY_FROM_YEAR | MNGR_NAME | AGE |
|---|---|---|---|---|---|---|---|---|---|
| - | - | - | America | - | - | - | 2001 | - | - |
| - | - | - | India | 7000 | - | single | - | - | - |
| - | - | - | - | - | - | - | - | suvodeep | - |
| - | - | - | - | - | - | - | - | amlan | - |

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