- A view is like a virtual table. It takes the output of a query and treats it like a table. We can **create**, **update**, **and drop a VIEW**.
- A view can be based on one or more tables or other views. These tables/views are called base tables.
- A view contains no data. All the data it shows comes from the base tables.
- A view can provide an additional level of **table security** by restricting access to a set of rows or columns of a table.
- A view lets you **change the data** you can access, applying operators, aggregation functions, filters etc. on the base table.

# SAMPLE RELATION - CUSTOMER

CUSTOMER_ID	NAME	CURRENT_BALANCE	PHONE_NO	CITY
019523012	George	15000	9865984759	Coimbatore
019523013	Antony	18500	9659845789	Chennai
019523045	Dharani	32650	9658523214	Chennai
019523025	Suresh	62555	8965985478	Salem
019586489	Vanitha	26590	7854896589	Trichy

TO CREATE A VIEW:

### **SYNTAX:**

CREATE VIEW view\_name AS SELECT column\_name

FROM table\_name [WHERE conditions];

### **EXAMPLE 1:**

```
      SQL> CREATE VIEW VIEW_1 AS (Select *from Customer);

      View created.

      SQL> SELECT *FROM VIEW_1;

      CUSTOMER_ID NAME CURRENT_BALANCE PHONE_NO CITY

      19523012 George 15000 9865984759 Coimbatore

      19523013 Antony 18500 9659845789 Chennai

      19523045 Dharani 32650 9658523214 Chennai

      19523025 Suresh 62555 8965985478 Salem

      19586489 Vanitha 26590 7854896589 Trichy
```

### **EXAMPLE 2:**

```
SQL> CREATE VIEW VIEW_2 AS (Select CUSTOMER_ID,NAME from Customer);
View created.

SQL> SELECT *FROM VIEW_2;

CUSTOMER_ID NAME

19523012 George
19523013 Antony
19523045 Dharani
19523025 Suresh
19586489 Vanitha
```

### **EXAMPLE 3:**

```
SQL> CREATE VIEW VIEW_3 AS (Select *from Customer WHERE CURRENT_BALANCE>30000);

View created.

SQL> SELECT *FROM VIEW_3;

CUSTOMER_ID NAME CURRENT_BALANCE PHONE_NO CITY

19523045 Dharani 32650 9658523214 Chennai
19523025 Suresh 62555 8965985478 Salem
```

TO INSERT INTO VIEW TABLE:

**SYNTAX:** 

INSERT INTO VIEW\_NAME VALUES('Value1',..., 'ValueN');

**EXAMPLE:** 

```
SQL> INSERT INTO VIEW_1 VALUES(19523056,'Sita',56000,9658987412,'Tirunelveli');
1 row created.
```

#### TO DISPLAY DATA IN VIEW TABLE:

#### TO DISPLAY DATA IN BASE TABLE:

**Note:** The record 'Sita' is displayed in both View and Base Tables. i.e., the **CHANGES** made in **VIEW** will reflect in **BASE TABLE** also.

TO DELETE FROM VIEW TABLE:

**SYNTAX:** 

DELETE FROM view\_name [WHERE conditions];

**EXAMPLE:** 

```
SQL> DELETE FROM VIEW_1 where Name='George';
1 row deleted.
```

#### TO DISPLAY DATA IN VIEW TABLE:

SQL> SELECT	*FROM UIEW_1;						
CUSTOMER_ID	NAME	CURRENT_	BALANCE	PHONE_NO	CITY		
19523013 19523045 19523025 19586489 19523056	Dharani Suresh Vanitha		32650 62555 26590	9659845789 9658523214 8965985478 7854896589 9658987412	Chennai Salem		

### TO DISPLAY DATA IN BASE TABLE:

SQL> SELECT *	FROM CUSTOM	ER;		
CUSTOMER_ID N	IAME CI	URRENT_BALANCE	PHONE_NO	CITY
19523013 A 19523045 D 19523025 S 19586489 U 19523056 S	harani uresh anitha	32650 62555 26590	9659845789 9658523214 8965985478 7854896589 9658987412	Chennai Salem

**Note:** The record 'George' is not displayed in both View and Base Tables. i.e., the **CHANGES** made in **VIEW** will reflect in **BASE TABLE** also.

The definition of an Oracle VIEW can be modified without dropping it by using the Oracle CREATE OR REPLACE VIEW Statement.

### Syntax:

CREATE OR REPLACE VIEW view\_name AS

SELECT columns FROM table [WHERE conditions];

### **EXAMPLE:**

```
SQL> CREATE OR REPLACE VIEW VIEW_2 AS SELECT *from CUSTOMER where CITY='Salem';

View created.

SQL> SELECT *FROM VIEW_2;

CUSTOMER_ID NAME CURRENT_BALANCE PHONE_NO CITY

19523025 Suresh 62555 8965985478 Salem
```

TO DROP A VIEW:

**SYNTAX:** 

DROP VIEW view\_name;

**EXAMPLE:** 

```
SQL> DROP VIEW VIEW_2;
View dropped.

SQL> SELECT *FROM VIEW_2;
SELECT *FROM VIEW_2

*
ERROR at line 1:
ORA-00942: table or view does not exist
```

**Note:** After dropping the view table, the data inside the base table remains the same.