

## Assignment – 6

1. Create a view vw\_client\_master using Client\_no, Name, Address1 and Bal\_due
  - a. Insert at least 3 records to vw\_client\_master.
  - b. Update a record to vw\_client\_master.
  - c. Delete a record from vw\_client\_master.

And check that the above operation if the base table is affected or not.

### SQL Query: 1

```
CREATE VIEW vw_client_master as SELECT client_no, Name, Address1, Balance_due  
FROM client_master;
```

### Output:

```
SQL> CREATE VIEW vw_client_master as SELECT client_no, Name, Address1, Balance_due FROM client_master;
```

View created.

```
SQL> SELECT * FROM vw_client_master;
```

CLIENT	NAME	ADDRESS1	BALANCE_DUE
C001	Ivan Bayross	P-76	15000
C002	Vandana Satial	128	0
C003	Pramada Jaguste	157	5000
C004	Basu Navindgi	A/12	0
C005	Ravi Sreedharan	B/34	2000
C006	Rukmini	Q-12	0

6 rows selected.

### SQL Query: 1a

```
INSERT INTO vw_client_master(client_no, name, address1, balance_due)  
VALUES('C007','ABHISEK SINGH','BALLY',15000);  
INSERT INTO vw_client_master(client_no, name, address1, balance_due)  
VALUES('C008','DIPAK DAS','SALT LAKE',10000);  
INSERT INTO vw_client_master(client_no, name, address1, balance_due)  
VALUES('C009','RAMAN GUPTA','HOWRAH',20000);
```

### Output:

```
SQL> SELECT * FROM vw_client_master;
```

CLIENT	NAME	ADDRESS1	BALANCE_DUE
C001	Ivan Bayross	P-76	15000
C002	Vandana Satial	128	0
C003	Pramada Jaguste	157	5000
C004	Basu Navindgi	A/12	0
C005	Ravi Sreedharan	B/34	2000
C006	Rukmini	Q-12	0
C007	ABHISEK SINGH	BALLY	15000
C008	DIPAK DAS	SALT LAKE	10000
C009	RAMAN GUPTA	HOWRAH	20000

9 rows selected.

```
SQL> SELECT * FROM client_master;
```

CLIENT	NAME	ADDRESS1	CITY	STATE	PINCODE	BALANCE_DUE	TELEPHONE
C001	Ivan Bayross	P-76	Bombay	Maharashtra	400054	15000	
C002	Vandana Satial	128	Madras	Tamilnadu	780001	0	
C003	Pramada Jaguste	157	Kolkata	West Bengal	700058	5000	
C004	Basu Navindgi	A/12	Bombay	Maharashtra	400056	0	
C005	Ravi Sreedharan	B/34	Delhi	Delhi	100001	2000	
C006	Rukmini	Q-12	Bombay	Maharashtra	400050	0	
C007	ABHISEK SINGH	BALLY				15000	
C008	DIPAK DAS	SALT LAKE				10000	
C009	RAMAN GUPTA	HOWRAH				20000	

9 rows selected.

Base table is affected

### SQL Query: 1b

```
UPDATE vw_client_master SET balance_due=8000
WHERE client_no='C008';
```

#### Output:

```
SQL> UPDATE vw_client_master SET balance_due=8000
2 WHERE client_no='C008';

1 row updated.

SQL> SELECT * FROM vw_client_master;
```

CLIENT	NAME	ADDRESS1	BALANCE_DUE
C001	Ivan Bayross	P-76	15000
C002	Vandana Satial	128	0
C003	Pramada Jaguste	157	5000
C004	Basu Navindgi	A/12	0
C005	Ravi Sreedharan	B/34	2000
C006	Rukmini	Q-12	0
C007	ABHISEK SINGH	BALLY	15000
C008	DIPAK DAS	SALT LAKE	8000
C009	RAMAN GUPTA	HOWRAH	20000

```
9 rows selected.
```

```
SQL> SELECT * FROM client_master;
```

CLIENT	NAME	ADDRESS1	CITY	STATE	PINCODE	BALANCE_DUE	TELEPHONE
C001	Ivan Bayross	P-76	Bombay	Maharashtra	400054	15000	
C002	Vandana Satial	128	Madras	Tamilnadu	780001	0	
C003	Pramada Jaguste	157	Kolkata	West Bengal	700058	5000	
C004	Basu Navindgi	A/12	Bombay	Maharashtra	400056	0	
C005	Ravi Sreedharan	B/34	Delhi	Delhi	100001	2000	
C006	Rukmini	Q-12	Bombay	Maharashtra	400050	0	
C007	ABHISEK SINGH	BALLY				15000	
C008	DIPAK DAS	SALT LAKE				8000	
C009	RAMAN GUPTA	HOWRAH				20000	

```
9 rows selected.
```

Base table is affected

### SQL Query: 1c

```
DELETE FROM vw_client_master WHERE client_no='C007';
```

#### Output:

```
SQL> DELETE FROM vw_client_master WHERE client_no='C007';

1 row deleted.

SQL> SELECT * FROM vw_client_master;
```

CLIENT	NAME	ADDRESS1	BALANCE_DUE
C001	Ivan Bayross	P-76	15000
C002	Vandana Satial	128	0
C003	Pramada Jaguste	157	5000
C004	Basu Navindgi	A/12	0
C005	Ravi Sreedharan	B/34	2000
C006	Rukmini	Q-12	0
C008	DIPAK DAS	SALT LAKE	8000
C009	RAMAN GUPTA	HOWRAH	20000

```
8 rows selected.
```

```
SQL> SELECT * FROM client_master;
```

CLIENT	NAME	ADDRESS1	CITY	STATE	PINCODE	BALANCE_DUE	TELEPHONE
C001	Ivan Bayross	P-76	Bombay	Maharashtra	400054	15000	
C002	Vandana Satial	128	Madras	Tamilnadu	780001	0	
C003	Pramada Jaguste	157	Kolkata	West Bengal	700058	5000	
C004	Basu Navindgi	A/12	Bombay	Maharashtra	400056	0	
C005	Ravi Sreedharan	B/34	Delhi	Delhi	100001	2000	
C006	Rukmini	Q-12	Bombay	Maharashtra	400050	0	
C008	DIPAK DAS	SALT LAKE				8000	
C009	RAMAN GUPTA	HOWRAH				20000	

```
8 rows selected.
```

Base table is affected

2. Create a view Vw\_sales\_det using Client\_no, Order\_no, Order\_date, Product\_no, Qty\_ordered, and order\_status for all order which have already marked as 'Backorder'. (Using the tables sales\_order, sales\_order\_details).
  - a. Insert a record to vw\_sales\_det.
  - b. Update the client\_no for a particular order\_no.
  - c. Delete a record.
  - d. Remove the views from database.

#### SQL Query: 2

```
CREATE VIEW vw_sales_det as SELECT
s1.client_no,s1.order_no,s1.order_date,s2.product_no,s2.qty_ordered,s1.order_status
FROM sales_order s1, sales_order_details s2
WHERE s1.order_no=s2.order_no AND s1.order_status='Backorder';
```

#### Output:

```
SQL> CREATE VIEW vw_sales_det as
2  SELECT s1.client_no, s1.order_no, s1.order_date, s2.product_no, s2.qty_ordered, s1.order_status
3  FROM sales_order s1, sales_order_details s2
4  WHERE s1.order_no=s2.order_no AND s1.order_status='Backorder';
```

View created.

```
SQL> SELECT * FROM vw_sales_det;
```

CLIENT	ORDER_	ORDER_DAT	PRODUC	QTY_ORDERED	ORDER_STAT
C002	019002	25-JAN-96	P00001	10	Backorder

#### SQL Query: 2a

```
INSERT INTO vw_sales_det(client_no, order_no, order_date, product_no, qty_ordered,
order_status) VALUES('C007','O19251','12-Jan-91','P00091',100,'InProcess');
```

#### Output:

```
SQL> INSERT INTO vw_sales_det(client_no, order_no, order_date, product_no, qty_ordered, order_status)
2  VALUES('C007','O19251','12-Jan-91','P00091',100,'InProcess');
INSERT INTO vw_sales_det(client_no, order_no, order_date, product_no, qty_ordered, order_status)
*
ERROR at line 1:
ORA-01779: cannot modify a column which maps to a non key-preserved table
```

#### SQL Query: 2b

```
UPDATE vw_sales_det set client_no='C006'
WHERE order_no='O19002';
```

#### Output:

```
SQL> UPDATE vw_sales_det set client_no='C006'
2  WHERE order_no='O19002';
UPDATE vw_sales_det set client_no='C006'
*
ERROR at line 1:
ORA-01779: cannot modify a column which maps to a non key-preserved table
```

#### SQL Query: 2c

```
DELETE FROM vw_sales_det WHERE client_no='C002';
```

#### Output:

```
SQL> DELETE FROM vw_sales_det WHERE client_no='C002';

1 row deleted.

SQL> SELECT * FROM vw_sales_det;

no rows selected
```

**SQL Query: 2d**

DROP VIEW vw\_sales\_det;

**Output:**

```
SQL> DROP VIEW vw_sales_det;

View dropped.

SQL> SELECT * FROM vw_sales_det;
SELECT * FROM vw_sales_det
          *
ERROR at line 1:
ORA-00942: table or view does not exist
```