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views and perform view creation from multiple tables the base table using its corresponding view. Also consider restrictions on updatable **Title:** Execute DDL statements which demonstrate the use of views. Try to update

virtual table in the database whose contents are defined by a query or taken from A view is defined as database object that allows us to create a Description:

Virtual Table: A view does not store data itself but provides a way to access data one or more tables.

Abstraction: Views can simplify data access by abstracting complex queries and from one or more base tables.

Security: Views can be used to restrict access to specific columns or rows in a presenting the data in a more convenient format.

table, thereby enhancing security

Screenshots/Output:

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Syntax: CREATE VIEW view_name AS SELECT column1, column2,....

FROM table_name; query.

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                                     9871234560
                                                  Sankalp Foundation
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                                                              amen_opn
                                               mysql> SELECT * FROM vl;
                                 Query OK, 0 rows affected (0.04 sec)
mysql> CREATE VIEW vl AS SELECT ngo_name, ngo_phone FROM ngo_details;
```

Syntax : Update view_name SET column_name = value WHERE condition; 2) Update: An UPDATE statement in SQL modifies existing records in a table.

```
mysql> UPDATE v5 SET item_no = 40 WHERE user_id = "N004";
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> SELECT * FROM v5;
| user_id | item_no |
| user_id | item_no |
| no02 | 30 |
| no04 | 40 |
| user_id | user |
| user_id | item_no |
| user_id | user |
| user |
| user_id | user |
| user_id | user |
| user
```

3)Simple view with order by clause: The SQL ORDER BY clause is used to sort the data in ascending or descending order, based on one or more columns. Syntax: CRETE VIEW view_name AS SELECT columnly....
FROM table_name ORDER BY column_name;

4) Multitable view: A multitable view in SQL is a virtual table created from a SELECT query that combines data from multiple tables using joins. Syntax: CREATE VIEW view_name AS SELECT column1, column2, ... FROM table, table2 WHERE condition;

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                                                  item_name | item_no
                                                                                              ! <-
                                                                              mysql> SELECT * FROM v4
                                                                  Query OK, 0 rows affected (0.0l sec)
                                              -> WHERE ngo_details.ngo_id = donation_item.user_id;
                                                                -> FROM ngo_details, donation_item
-> SELECT ngo_detalls.ngo_detalls.ngo_detalls.ngo_opa.amen_opa.item_name, donatinoitem_name,
                                                                             mysql> CREATE VIEW v4 AS
```

5) Create or Replace: 'CREATE OR REPLACE VIEW' updates an existing view or creates a new one if it doesn't exist, allowing you to change the view's definition without dropping it.

Syntax: CREATE OR REPLACE VIEW view_name AS SELECT column1, column2, ... FROM table_name WHERE condition;

```
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                                                         שאedן> ZELECT * FROM ילן;
                                            Query OK, 0 rows affected (0.02 sec)
                        -> WHERE ngo_details.ngo_bi = donation_item.user_id;
                                          -> FROM ngo_details, donation_item
-> SELECT ngo_details.ngo_idi.donation_item.item_name, donation_item_no
                                             mysql> CREATE OR REPLACE VIEW v4 AS
```

6)Aggregative functions: in a view allow you to perform calculations like SUM, AVG, COUNT, MIN, and MAX on a set of data within the view.

FUNCTIONS(column_name) FROM view_name;

FUNCTIONS(column_name) FROM view_name;

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```
mysql> CREATE VIEW sum AS SELECT SUM(item_no) FROM v4;
Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM sum;
| SUM(item_no) |
| 220 |
| 220 |
| row in set (0.02 sec)
```

Aggregative functions AVG:

```
mysql> CREATE VIEW avg AS SELECT AVG(item_no) FROM v4;
Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM avg;
| AVG(item_no) |
| AVG(item_no) |
| 55 |
| row in set (0.00 sec)
```

Aggregative functions COUNT:

Aggregative functions MIN:

```
mysql> CREATE VIEW min AS SELECT MIN(item_no) FROM v4;
Query OK, O rows affected (0.02 sec)
mysql> SELECT * FROM min;
| MIN(item_no) |
| 30 |
| row in set (0.01 sec)
```

Aggregative functions MAX:

7) Insert view: You can insert data into an updatable view using the INSERT INTO statement, similar to inserting into a table.

Syntax: INSERT INTO view_name WHERE condition;

```
mysql> INSERT INTO v5 (user_id,item_no) VALUES ("N004","30");
Query OK, 1 row affected (0.01 sec)
mysql> SELECT * FROM v5;
| uoot | 50 |
| tem_no |
| t
```

8)Deletion from view: You can delete data from an updatable view using the Syntax: DELETE statement, just like deleting from a table.

Drop view: You can delete a view using the DROP VIEW statement. Syntax: DROP view_name;

```
mysql> DROP VIEW v5; Query OK, 0 rows affected (0.02 sec)
```