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**Practical 09: Views**

**Objective:**  Study and Implementation of Views.

1. **Views:** A view in a SQL is an abstract virtual table.

mysql> use bca;

Database changed

mysql> show tables;

+---------------+

| Tables\_in\_bca |

+---------------+

| department |

| employee |

| shopcart |

| students |

| user |

+---------------+

5 rows in set (0.04 sec)

mysql> desc shopcart;

+---------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+-------------+------+-----+---------+-------+

| shop\_id | int | NO | PRI | NULL | |

| shop\_name | varchar(20) | YES | | NULL | |

| item\_name | varchar(20) | YES | | NULL | |

| item\_quantity | int | YES | | NULL | |

| price | int | YES | | NULL | |

+---------------+-------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

mysql> select \* from shopcart;

+---------+-----------------+-----------------+---------------+-------+

| shop\_id | shop\_name | item\_name | item\_quantity | price |

+---------+-----------------+-----------------+---------------+-------+

| 1 | Joshi Chaiwala | Momo | 5 | 20 |

| 2 | Joshi Chaiwala | Milk chai | 1 | 20 |

| 3 | Sooraj da Dhaba | samosa | 5 | 35 |

| 4 | Sooraj da Dhaba | Aloo-Chutney | 1 | 50 |

| 5 | Sooraj da Dhaba | Jalebi | 5 | 50 |

| 6 | Boogilal | kurkure | 1 | 5 |

| 7 | Boogilal | cream-roll | 1 | 10 |

| 8 | Joshi Chaiwala | pani poori | 25 | 15 |

| 9 | Khan Shaab | Sugarcane Juice | 1 | 15 |

| 10 | Siddhu Paaji | Lassi | 1 | 25 |

+---------+-----------------+-----------------+---------------+-------+

10 rows in set (0.02 sec)

mysql> Create view v as (Select shop\_name, item\_name from shopcart where price >10);

Query OK, 0 rows affected (0.28 sec)

mysql> select \* from v;

+-----------------+-----------------+

| shop\_name | item\_name |

+-----------------+-----------------+

| Joshi Chaiwala | Momo |

| Joshi Chaiwala | Milk chai |

| Sooraj da Dhaba | samosa |

| Sooraj da Dhaba | Aloo-Chutney |

| Sooraj da Dhaba | Jalebi |

| Joshi Chaiwala | pani poori |

| Khan Shaab | Sugarcane Juice |

| Siddhu Paaji | Lassi |

+-----------------+-----------------+

8 rows in set (0.01 sec)

mysql> Create or replace view v as (Select shop\_id, shop\_name, item\_name from shopcart where price >10);

Query OK, 0 rows affected (0.19 sec)

mysql> select \* from v;

+---------+-----------------+-----------------+

| shop\_id | shop\_name | item\_name |

+---------+-----------------+-----------------+

| 1 | Joshi Chaiwala | Momo |

| 2 | Joshi Chaiwala | Milk chai |

| 3 | Sooraj da Dhaba | samosa |

| 4 | Sooraj da Dhaba | Aloo-Chutney |

| 5 | Sooraj da Dhaba | Jalebi |

| 8 | Joshi Chaiwala | pani poori |

| 9 | Khan Shaab | Sugarcane Juice |

| 10 | Siddhu Paaji | Lassi |

+---------+-----------------+-----------------+

8 rows in set (0.00 sec)

mysql> Insert into v values(11, 'Kannu', 'Chai');

Query OK, 1 row affected (0.06 sec)

mysql> Insert into v values(12, 'Chapri-Soda', 'Crax');

Query OK, 1 row affected (0.09 sec)

mysql>

mysql>

mysql> select \* from v;

+---------+-----------------+-----------------+

| shop\_id | shop\_name | item\_name |

+---------+-----------------+-----------------+

| 1 | Joshi Chaiwala | Momo |

| 2 | Joshi Chaiwala | Milk chai |

| 3 | Sooraj da Dhaba | samosa |

| 4 | Sooraj da Dhaba | Aloo-Chutney |

| 5 | Sooraj da Dhaba | Jalebi |

| 8 | Joshi Chaiwala | pani poori |

| 9 | Khan Shaab | Sugarcane Juice |

| 10 | Siddhu Paaji | Lassi |

+---------+-----------------+-----------------+

8 rows in set (0.00 sec)

mysql> select \* from shop\_cart;

ERROR 1146 (42S02): Table 'bca.shop\_cart' doesn't exist

mysql> select \* from shopcart;

+---------+-----------------+-----------------+---------------+-------+

| shop\_id | shop\_name | item\_name | item\_quantity | price |

+---------+-----------------+-----------------+---------------+-------+

| 1 | Joshi Chaiwala | Momo | 5 | 20 |

| 2 | Joshi Chaiwala | Milk chai | 1 | 20 |

| 3 | Sooraj da Dhaba | samosa | 5 | 35 |

| 4 | Sooraj da Dhaba | Aloo-Chutney | 1 | 50 |

| 5 | Sooraj da Dhaba | Jalebi | 5 | 50 |

| 6 | Boogilal | kurkure | 1 | 5 |

| 7 | Boogilal | cream-roll | 1 | 10 |

| 8 | Joshi Chaiwala | pani poori | 25 | 15 |

| 9 | Khan Shaab | Sugarcane Juice | 1 | 15 |

| 10 | Siddhu Paaji | Lassi | 1 | 25 |

| 11 | Kannu | Chai | NULL | NULL |

| 12 | Chapri-Soda | Crax | NULL | NULL |

+---------+-----------------+-----------------+---------------+-------+

12 rows in set (0.00 sec)

mysql> delete from v where item\_name like 'A%';

Query OK, 1 row affected (0.13 sec)

mysql> select \* from v;

+---------+-----------------+-----------------+

| shop\_id | shop\_name | item\_name |

+---------+-----------------+-----------------+

| 1 | Joshi Chaiwala | Momo |

| 2 | Joshi Chaiwala | Milk chai |

| 3 | Sooraj da Dhaba | samosa |

| 5 | Sooraj da Dhaba | Jalebi |

| 8 | Joshi Chaiwala | pani poori |

| 9 | Khan Shaab | Sugarcane Juice |

| 10 | Siddhu Paaji | Lassi |

+---------+-----------------+-----------------+

7 rows in set (0.00 sec)

mysql> select \* from shopcart;

+---------+-----------------+-----------------+---------------+-------+

| shop\_id | shop\_name | item\_name | item\_quantity | price |

+---------+-----------------+-----------------+---------------+-------+

| 1 | Joshi Chaiwala | Momo | 5 | 20 |

| 2 | Joshi Chaiwala | Milk chai | 1 | 20 |

| 3 | Sooraj da Dhaba | samosa | 5 | 35 |

| 5 | Sooraj da Dhaba | Jalebi | 5 | 50 |

| 6 | Boogilal | kurkure | 1 | 5 |

| 7 | Boogilal | cream-roll | 1 | 10 |

| 8 | Joshi Chaiwala | pani poori | 25 | 15 |

| 9 | Khan Shaab | Sugarcane Juice | 1 | 15 |

| 10 | Siddhu Paaji | Lassi | 1 | 25 |

| 11 | Kannu | Chai | NULL | NULL |

| 12 | Chapri-Soda | Crax | NULL | NULL |

+---------+-----------------+-----------------+---------------+-------+

11 rows in set (0.00 sec)

mysql> drop view v;

Query OK, 0 rows affected (0.39 sec)