# Sanjivani College Of Engineering.

(An Autonomous Institute)

**Department Of Computer Engineering.** 

**Database Management System Laboratory.** 

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- Assignment No:2

#### Problem Statement:

Design at least 10 SQL queries for suitable database application using SQL DML statements:Insert,select,update,delete with operators,functions,and set operator,all types of join,sub-query and view.

**Database Name: Bakery Management System.** 

# **Bakery Management System.**

- Products(Pid,Pname,Pcolor,Pflavour,Price)
- Customers(cid,cname,cadd,cphno)
- Purchase(pid,cid,bno,DOP)
- b\_info(bno,totalamount,cid)

#### **Commands:**

#### 1)Create a database:

create database bms;

#### 2)Create tables:

create table products(pid int(10) primary key,pname varchar (30) not null,pcolor varchar (50),price int(15) not null);

create table customers(cid int(10) primary key,cname varchar (30) not null,cadd varchar (50),cphno int(15));

create table purchase(pid int(10),cid int(10),bno int(10) not null,DOP date);

create table b\_info(bno int(10),total\_amount int(15) not null,cid int(10));

#### 3)Insert values:

```
insert into products values(001,'cake','brown',250,'chocolate'); insert into products values(002,'cake','yellow',200,'butterscotch'); insert into products values(003,'cake','white',220,'vanilla'); insert into products values(004,'cake','black',480,'balck current'); insert into products values(005,'cake','pink',210,'strawberry'); insert into products values(006,'cake','white',210,'white forest'); insert into products values(007,'cake','red',260,'Red velvet'); insert into products values(008,'pastry','black',120,'black forest'); insert into products values(009,'pastry','white',160,'vanilla'); insert into products values(010,'pastry','brown',180,'chocolate'); insert into products values(011,'bread','brown',80,'wheat'); insert into products values(013,'cream roll','yellow',80,'vanilla'); insert into products values(014,'candies','rainbow colors',380,'vanilla');
```

```
insert into customers values(001, 'Mr. Mittal', 'Mumbai', 98785745); insert into customers values(002, 'Mr. Chaterjee', 'Pune', 915746451); insert into customers values(003, 'Mrs. Malhotra', 'Banglore', 946578525); insert into customers values(004, 'Ms. Desai', 'Shirdi', 94574541); insert into customers values(005, 'Mr. Kulkarni', 'Kolhapur', 874562145); insert into customers values(006, 'Mrs. Deshpande', 'Sambhajinagar', 882452445);
```

```
insert into purchase values(001,002,101,'2022-02-11'); insert into purchase values(002,004,101,'2023-04-22'); insert into purchase values(003,001,103,'2023-01-02'); insert into purchase values(004,003,104,'2022-05-13'); insert into purchase values(005,006,105,'2021-08-24'); insert into purchase values(012,005,106,'2023-06-01'); insert into b_info values(101,1200,006); insert into b_info values(102,2456,001); insert into b_info values(103,896,005); insert into b_info values(104,450,002); insert into b_info values(105,3600,004); insert into b_info values(106,2100,003);
```

```
mysql> insert into products values(101, 'cake', 'brown', 250, 'chocolate');
ERROR 1062 (23000): Duplicate entry '101' for key 'products.PRIMARY'
mysql> insert into products values(801, 'cake', 'brown', 250, 'chocolate');
Query OK, 1 row affected (0.00 sec)

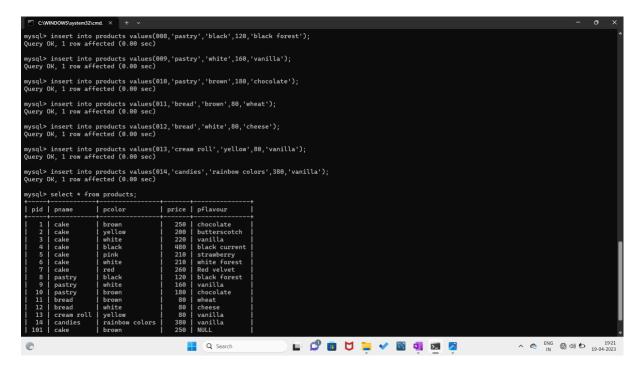
mysql> insert into products values(802, 'cake', 'yellow', 200, 'butterscotch');
Query OK, 1 row affected (0.00 sec)

mysql> insert into products values(804, 'cake', 'black', 480, 'black current');
Query OK, 1 row affected (0.00 sec)

mysql> insert into products values(804, 'cake', 'pink', 210, 'strawberry');
ERROR 1062 (23000): Duplicate entry '4' for key 'products.PRIMARY'
mysql> insert into products values(805, 'cake', 'pink', 210, 'strawberry');
Query OK, 1 row affected (0.00 sec)

mysql> insert into products values(806, 'cake', 'white', 210, 'white forest');
Query OK, 1 row affected (0.00 sec)

mysql> insert into products values(806, 'cake', 'white', 210, 'white forest');
Query OK, 1 row affected (0.00 sec)
```





#### 4)Add a extra column in a table:

alter table products add pflavour varchar(50);

```
mysql> alter table products add pflavour varchar(50);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql>
```

#### 5) Update the table:

Update products set pflavour='vanilla' where pid=003;



#### 6)Queries:

## 1)List of all products names:

select pname from products;

```
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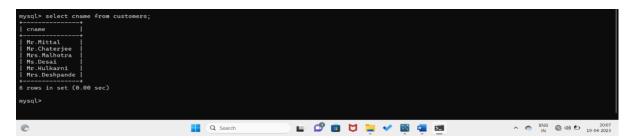
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Fig. **

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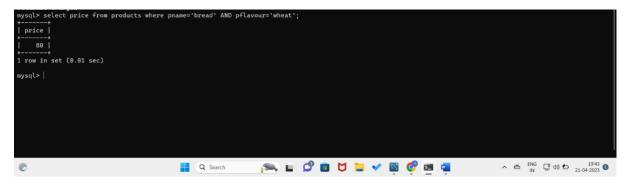
## 2)Display all the customer names:

select cname from customers;



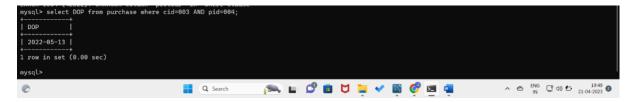
#### 3) What is the price of the wheat bread?

select price from products where pname='bread' AND pflavour='wheat';



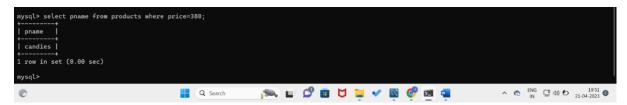
#### 4)On which date customer with id 003 purchased the black coloured cake?

select DOP from purchase where cid=003 AND pid=004;



#### 5) Display the product with the price Rs. 380.

select pname from products where price=380;

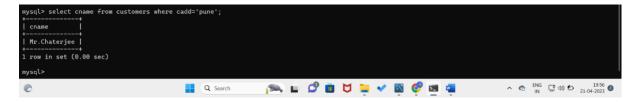


## 6) Which product is purchased by Mr. Mittal?

Select pid from purchase where cid=003; select pname from products where pid=004;

#### 7)Select the customer name with address 'pune'?

select cname from customers where cadd='pune';



#### 8) What was the total amount paid by the customer with id 003?

select totalamount from b\_info where cid=003;



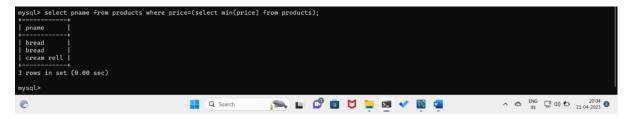
## 9)Display the number of products with minimum price?

select count(\*) from products;

select min(price) from products;

#### 10) Display the name of the products with minimum price?

select pname from products where price=(select min(price) from products);



#### 7)View:

Create view cake

AS

Select \* from products where pname='cake';

```
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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use bms;
Database changed
mysql> create view cake AS select * from products where pname='cake';
Query OK, 0 rows affected (0.09 sec)

mysql> select * from cake;

| pid | pname | pcolor | price | pflavour |

| 1 | cake | brown | 250 | chocolate |
| 2 | cake | white | 220 | vanila |
| 4 | cake | black | 480 | black current |
| 5 | cake | paink | 210 | stramberry |
| 6 | cake | white | 210 | white forest |
| 7 | cake | brown | 250 | Red velvet |
| 101 | cake | brown | 250 | Red velvet |
| 7 | cake | brown | 210 | Red velvet |
| 8 | rows in set (0.01 sec)
```

#### A)Horizontal view:

Create view pastry

AS

Select \* from products where pname='pastry';

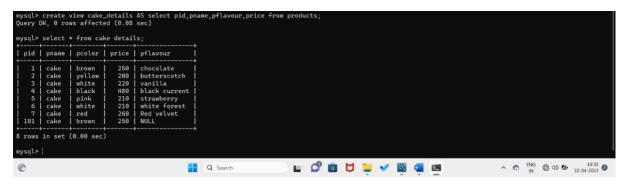


## **B)Vertical view:**

Create view cake\_details

AS

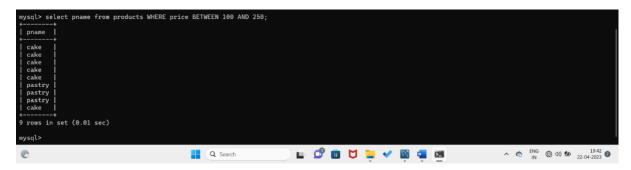
Select pid,pname,pflavour,price from products;



## 8)Operators:

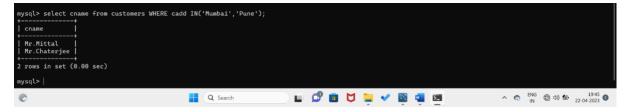
1)List the product names in the price range 100 to 250.

Select pname from products WHERE price BETWEEN 100 AND 250.



## 2)List the customer names who belong to Pune Or Mumbai City.

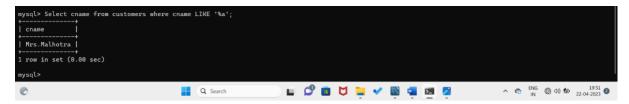
Select cname from customers WHERE cadd IN('Mumbai','Pune');



# 3)List the products id and product names where flavour begins with 'V' and has

#### 'N' as the third character.

Select pid,pname from products WHERE pflavour LIKE 'V\_N';



## 4)List the names of the customers whose name ends with letter A.

Select cname from cutomer WHERE cname LIKE '%a';



#### 5)Display customer name who has eight characters in their name.

Select cname from customer WHERE cname LIKE \_\_\_\_\_\_;

