**TEAM-1 DOCUMENT:**

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**Question: Create a table with name products and entries are:**

ProductID, Product name, supplier ID, categoryID, Quantity per unit, unit price, units in stock, units on order, reorder level, discontinued.

Indexes: primary key product name, foreign key is products categories & products suppliers.

**Approach:**  for the above question we will be considering three tables namely the products,categories and suppliers table.

The categories table consists of the following columns namely:

* Category\_id
* Category\_name

The suppliers table consists of the following columns namely:

* Supplier\_id
* Supplier\_name

create database prac;

use prac;

create table categories (category\_id int primary key,category\_name varchar(30));

create table suppliers (supplier\_id int primary key,supplier\_name varchar(30));

create table products (Product\_id int,

Product\_name varchar(30) primary key,

supplier\_id int,

category\_id int,

quantity\_per\_unit varchar(30),

unit\_price int,

units\_in\_stock int,

units\_on\_order int,

reorder\_level varchar(30),

discontinued int,

foreign key(supplier\_id)references suppliers(supplier\_id),

foreign key(category\_id)references categories(category\_id)

);

insert into Categories (category\_id, category\_name) values

(1, 'Electronics'),

(2, 'Furniture'),

(3, 'Kitchenware'),

(4, 'Clothing'),

(5, 'Footwear'),

(6, 'Books'),

(7, 'Toys'),

(8, 'Groceries'),

(9, 'Jewellery'),

(10, 'Beauty Products');

insert into Suppliers (supplier\_id, supplier\_name) values

(1, 'Tata Electronics'),

(2, 'Ikea Furniture'),

(3, 'Bajaj'),

(4, 'Raymond'),

(5, 'Bata'),

(6, 'Penguin Books'),

(7, 'School Toys'),

(8, 'Big Bazaar'),

(9, 'Malabar Jewellery'),

(10, 'Sugar');

insert into Products

(product\_id, product\_name, supplier\_id, category\_id, quantity\_per\_unit, unit\_price, units\_in\_stock, units\_on\_order, reorder\_level, discontinued)

values (1, 'LED TV', 1, 1, '1 unit', 30000, 50, 10, 5, 0),

(2, 'Smartphone', 1, 1, '1 unit', 20000, 100, 25, 10, 0),

(3, 'Washing Machine', 1, 1, '1 unit', 25000, 15, 5, 2, 0),

(4, 'Microwave Oven', 1, 1, '1 unit', 12000, 30, 10, 5, 0),

(5, 'Sofa Set', 2, 2, '1 set', 45000, 20, 5, 2, 0),

(6, 'Dining Table', 2, 2, '1 set', 25000, 10, 2, 2, 0),

(7, 'Chair', 2, 2, '1 unit', 1500, 100, 0, 10, 0),

(8, 'Wardrobe', 2, 2, '1 unit', 30000, 5, 0, 3, 0),

(9, 'Pressure Cooker', 3, 3, '1 unit', 1500, 0, 50, 10, 0),

(10, 'Nonstick Pan', 3, 3, '1 unit', 2000, 50, 10, 5, 0),

(11, 'Cotton Shirt', 4, 4, '1 piece', 1200, 100, 20, 15, 0),

(12, 'Denim Jeans', 4, 4, '1 piece', 2000, 50, 15, 10, 0),

(13, 'Leather Shoes', 5, 5, '1 pair', 4500, 15, 5, 3, 1),

(14, 'Sports Shoes', 5, 5, '1 pair', 5000, 25, 0, 5, 0),

(15, 'Story Book', 6, 6, '1 book', 300, 200, 0, 10, 0),

(16, 'Textbook', 6, 6, '1 book', 800, 150, 0, 5, 0),

(17, 'Toy Car', 7, 7, '1 unit', 800, 5, 50, 5, 0),

(18, 'Doll', 7, 7, '1 unit', 1200, 10, 15, 3, 0),

(19, 'Gold Necklace', 9, 9, '1 piece', 150000, 2, 0, 1, 0),

(20, 'Diamond Ring', 9, 9, '1 piece', 250000, 1, 0, 1, 0);

-- **1. Write a MySQL query to get Product name and quantity/unit**.

select product\_name,quantity\_per\_unit from products;

-- **2. Write a MySQL query to get current Product list (Product ID and name).**

select product\_id,product\_name from products where discontinued = 0 order by product\_id;

-- **3. Write a MySQL query to get discontinued Product list (Product ID and name).**

select product\_id,product\_name from products where discontinued = 1;

-- **4. Write a MySQL query to get most expense and least expensive Product list (name and unit price).**

select max(unit\_price) as max\_price from products union

select min(unit\_price) as min\_price from products;

-- **5. Write a MySQL query to get Product list (id, name, unit price) where current products cost less than 20000 rupees.**

select product\_id,product\_name,unit\_price from products where unit\_price < 20000 and discontinued = 0 order by product\_id;

-- **6. Write a MySQL query to get Product list (id, name, unit price) where products cost between 1000 and 5000 rupees.**

select product\_id,product\_name,unit\_price from products where unit\_price between 1000 and 5000;

-- **7. Write a MySQL query to get Product list (name, unit price) of above average price**.

select product\_name,unit\_price from products where unit\_price > (select avg(unit\_price) from products);

-- **8. Write a MySQL query to get Product list (name, unit price) of ten most expensive products.**

select product\_name,unit\_price from products order by unit\_price desc limit 10;

-- **9. Write a MySQL query to count current and discontinued products.**

select Discontinued,COUNT(\*) as ProductCount

from Products group by Discontinued;

-- **10. Write a MySQL query to get Product list (name, units on order, units in stock) of stock is less than the quantity on order.**

select product\_name,units\_on\_order,units\_in\_stock from products where units\_in\_stock < units\_on\_order;