

MINI PROJECT

1. Create the following tables inside the database 'global_store_db'.
'products' with columns:

- product_id (INT, auto_increment, primary key),
- name (VARCHAR(100)),
- price (DECIMAL(10,2)),
- quantity (INT).

'orders' with columns:

- order_id (INT, auto_increment, primary key),
- product_id (INT, foreign key referencing product_id in the inventory table),
- quantity_ordered (INT)
- order_date (DATE).

```
CREATE DATABASE global_store_db;
USE global_store_db;

CREATE TABLE products (
  product_id INT AUTO_INCREMENT PRIMARY KEY,
  name VARCHAR(100),
  price DECIMAL(10, 2),
  quantity INT );

CREATE TABLE orders (
  order_id INT AUTO_INCREMENT PRIMARY KEY,
  product_id INT,
  FOREIGN KEY (product_id) REFERENCES products(product_id) ,
  quantity_ordered INT,
  order_date DATE);
```

2. Alter the products table to add a new column named category (VARCHAR(50)) after the price column.

```

16
17 • ALTER TABLE products ADD COLUMN
18   Category VARCHAR (50) AFTER price;
19

```

Result Grid

Filter Rows:

Edit:

Export/Import:

	product_id	name	price	Category	quantity
*	NULL	NULL	NULL	NULL	NULL

3. Rename the products table to inventory.

```

22 • RENAME TABLE products TO inventory ;

```


4. Insert at least 10 records into the inventory table and 5 records into orders table and display the tables.

```





24 • INSERT INTO inventory VALUES
25   (1,'MAC BOOK',150000,'ELECTRONICS',1),
26   (2,'PEN ',1000,'STATIONARY',10),
27   (3,'PLATE',2000,'CROCKERY',5),
28   (4,'NOTEBOOKS',500,'STATIONARY',10),
29   (5,'IPHONE COVER',550,'ACCESSORIES',1),
30   (6,'CHARGER',4000,'ACCESSORIES',1),
31   (7,'SHIRT',10000,'CLOTHING',2),
32   (8,'FACE WASH',1999,'BEAUTY PRODUCT',3),
33   (9,'SAMSUNG FLIP',90000,'ELECTRONICS',1),
34   (10,'TEA POT',3000,'CROCKERY',2);
35
36 • SELECT * FROM inventory;

```

Result Grid

 Filter Rows:

Edit:

Export/Import:

product_id	name	price	Category	quantity
1	MAC BOOK	150000.00	ELECTRONICS	1
2	PEN	1000.00	STATIONARY	10
3	PLATE	2000.00	CROCKERY	5
4	NOTEBOOKS	500.00	STATIONARY	10
5	IPHONE COVER	550.00	ACCESSORIES	1
6	CHARGER	4000.00	ACCESSORIES	1
7	SHIRT	10000.00	CLOTHING	2
8	FACE WASH	1999.00	BEAUTY PRODUCT	3
9	SAMSUNG FLIP	90000.00	ELECTRONICS	1
10	TEA POT	3000.00	CROCKERY	2
NULL	NULL	NULL	NULL	NULL

```

38 • INSERT INTO orders VALUES
39 (4324, 1, 1, '2024-02-24'),
40 (8258, 2, 10, '2024-02-24'),
41 (4211, 3, 5, '2024-02-25'),
42 (7299, 4, 10, '2024-02-26'),
43 (2793, 5, 1, '2024-02-26');
44
45
46 • SELECT * FROM orders ;

```

order_id	product_id	quantity_ordered	order_date
2793	5	1	2024-02-26
4211	3	5	2024-02-25
4324	1	1	2024-02-24
7299	4	10	2024-02-26
8258	2	10	2024-02-24
NULL	NULL	NULL	NULL

5. Write queries for the following :

a) Write a query to display distinct categories from the inventory table.

```

46
47 • SELECT DISTINCT category FROM inventory ;

```

category
ELECTRONICS
STATIONARY
CROCKERY
ACCESSORIES
CLOTHING
BEAUTY PRODUCT

b) Select the top 5 products by their prices in descending order from the inventory table.

```
51 • SELECT * FROM inventory ORDER BY price DESC LIMIT 5;
```

product_id	name	price	Category	quantity
1	MAC BOOK	150000.00	ELECTRONICS	1
9	SAMSUNG FLIP	90000.00	ELECTRONICS	1
7	SHIRT	10000.00	CLOTHING	2
6	CHARGER	4000.00	ACCESSORIES	1
10	TEA POT	3000.00	CROCKERY	2
NULL	NULL	NULL	NULL	NULL

c) Display the names of products with a quantity greater than 10 from the inventory table.

```
49 • SELECT name FROM inventory WHERE quantity > 10;
```

name

!! OR WHICH IS GREATER THAN 9 (only for verification)

```
49
```

```
49 • SELECT name FROM inventory WHERE quantity > 9;
```

```
50
```

name
PEN
NOTEBOOKS

d) Use the SUM() function to calculate the total price of all products in the inventory table.

```
53 • SELECT SUM(price) AS Total FROM inventory ;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Co
	Total			
	263049.00			

e) Group products by their categories and display the count of products in each category.

```
55 • SELECT category, COUNT(*) AS product_count
56 FROM inventory GROUP BY category;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Co
category	product_count			
ELECTRONICS	2			
STATIONARY	2			
CROCKERY	2			
ACCESSORIES	2			
CLOTHING	1			
BEAUTY PRODUCT	1			

f) Write a query to identify products that are currently out of stock (i.e., quantity is zero). Display the product details including the product name and price.

```
58 • SELECT name, price FROM inventory
59 WHERE quantity = 0 ;
60
```




Result Grid		Filter Rows:	Export:
name	price		

6. Create a view named expensive_products that displays the details of products with a price above the average price of all products.

```

61 • CREATE VIEW expensive_Product AS
62   SELECT * FROM inventory WHERE
63   price > (SELECT AVG(price) FROM inventory);

```


Result Grid					
Filter Rows: <input type="text"/>					
Edit:    Export/Imp					
	product_id	name	price	Category	quantity
▶	1	MAC BOOK	150000.00	ELECTRONICS	1
	9	SAMSUNG FLIP	90000.00	ELECTRONICS	1
*	NULL	NULL	NULL	NULL	NULL

7. Write a join query to display the names of products along with the corresponding order quantities from the inventory and orders tables.

```

62 • SELECT name, quantity_ordered FROM inventory
63   JOIN orders ON inventory.product_id = orders.product_id;

```

Result Grid		
Filter Rows: <input type="text"/>		
Export:  Wrap Cell Content: IA		
	name	quantity_ordered
▶	IPHONE COVER	1
	PLATE	5
	MAC BOOK	1
	NOTEBOOKS	10
	PEN	10