

## Assignment - TechShop, an electronic gadgets shop

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### Schema Design:

**Products Table:**

	ProductID	ProductName	Description	Price
1	9	Laptop	15-inch display	878
2	10	Smartphone	5G enabled	658
3	11	Tablet	10-inch screen	328
4	12	Watch	Noise-canceling	2000
5	13	Smartwatch	Fitness tracker	163
6	14	Gaming Console	Next-gen gaming	548
7	15	Wireless Mouse	Bluetooth mouse	31
8	16	Mechanical Keyboard	RGB backlit	108
9	17	Monitor	27-inch 4K display	438
10	18	External SSD	1TB	163
11	19	PS5	Console	1055
12	1020	Razor	Razor for men	200

**Orders Table:**

<div> <div>Results</div> <div>Messages</div> </div>					
	OrderID	CustomerID	OrderDate	TotalAmount	Status
1	1	1	2024-09-01	1500	Pending
2	2	2	2024-09-02	2500	Pending
3	3	3	2024-09-05	1000	Shipped
4	5	1	2024-09-07	2200	Pending
5	6	2	2024-09-08	1800	Pending
6	7	5	2024-09-10	2700	Pending
7	8	3	2024-09-11	3200	Pending
8	10	3	2024-09-04	2500	Pending
9	11	3	2024-09-04	2500	Pending
10	13	4	2004-12-12	2000	Pending
11	14	5	1212-12-12	2300	Pending

**OrderDetails Table:**

<div> <div>Results</div> <div>Messages</div> </div>				
	OrderDetailID	OrderID	ProductID	Quantity
1	6	1	10	118
2	7	1	10	125
3	118	1	10	2
4	119	2	9	1
5	120	3	12	5
6	122	5	16	4
7	123	6	15	6
8	124	7	17	2
9	125	8	13	1

**Customers Table:**

Results Messages						
	CustomerID	FirstName	LastName	Email	Phone	Address
1	1	John	Doe	john.doe@example.com	-679	123 Elm St
2	2	Jane	Smith	jane.smith@example.com	-5123	456 Oak St
3	3	Alice	Johnson	alice.j@example.com	-8210	789 Pine St
4	4	Bob	Brown	bob.brown@example.com	-3766	101 Maple St
5	5	Charlie	Davis	charlie.davis@example.com	-9321	102 Cedar St
6	6	David	Wilson	david.wilson@example.com	-567	222 Birch St
7	7	Eva	Taylor	eva.taylor@example.com	-2789	333 Walnut St
8	8	Frank	Thomas	frank.thomas@example.com	-5011	444 Chestnut St
9	9	Grace	Moore	grace.moore@example.com	-7233	555 Spruce St
10	10	Harry	Anderson	raju.rastogi@gmail.com	-9356	221b, ST 12345
11	11	Sherlock	Holmes	sherlock.holmes@gmail.com	NULL	221B Baker Street
12	12	Sherlock	Holmes	sherlock.holmes@gmail.com	NULL	221B Baker Street
13	13	Sherlock	Holmes	sherlock.holmes@gmail.com	NULL	221B Baker Street

### Inventory Table:

Results Messages				
	InventoryID	ProductID	QuantityInStock	LastStockUpdate
1	2	9	50	20230901
2	3	10	100	20230902
3	4	13	200	20230905
4	5	14	30	20230828
5	6	15	75	20230903
6	7	16	120	20230910
7	8	17	60	20230830
8	9	18	90	20230912
9	10	11	150	20230908
10	11	12	125	20230911

### Menu Driven Working of Project:

#### 1. Customer Registration

```
Starting...
Connecting...
trying...
<pyodbc.Connection object at 0x000001992D3EBD20>
Connected Successfully
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 1
Enter First Name: Poorvansh
Enter Last Name: Vyas
Enter Email: puru.vya@gmail.comm
Enter Phone: 8770
Customer created successfully!
```

## 2. Update Customers

```
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 2
Enter Customer ID to update: 1014
Enter new Email: poorvansh.vyas@gmail.com
Enter new Phone: 62638
Enter new Address: Subhash nagar
Customer updated successfully!
```

### 3. Add Product

```
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 3
Enter Product Name: Trimmer
Enter Product Description: Electric Trimmer
Enter Product Price: 2500
Product created successfully!
```

### 4. Update Product

```
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 4
Enter Product ID to update: 1020
Product found: (1020, 'Trimmer', 'Razor for men', 150)
Enter new Product Name: Razor
Enter new Product Price: 1200
Product updated successfully!
```

### 5. Place Order

```
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 5
Enter customer ID: 1014
Enter order date (YYYY-MM-DD): 2024
Enter order status: Pending
Enter order total: 2300
Order created successfully!
```

#### 6. Track Order Status

```
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 6
Enter order ID to track status: 15
Order: 15 Status: Pending
```

#### 7. Payment Processing

```
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 7
Enter order ID: 7
Enter payment amount: 2500
Payment processed successfully.
```

#### 8. Delete Product

```
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 8
Enter product ID: 5
Product deleted successfully!
```

#### 9. Search Product

```
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 9
Enter product ID: 1020
Product found: (1020, 'Razor', 'Razor for men', 1200)
```

#### 10. Exit

```
1. Add Customer
2. Update Customers
3. Add Product
4. Update Product
5. Place order
6. Track Order Status
7. Payment Processing
8. Delete Product
9. Search Products by ID
10. Exit
Enter your choice: 10
Exiting...
Database connection closed.
```