

DESIGN: Online Technology Marketplace

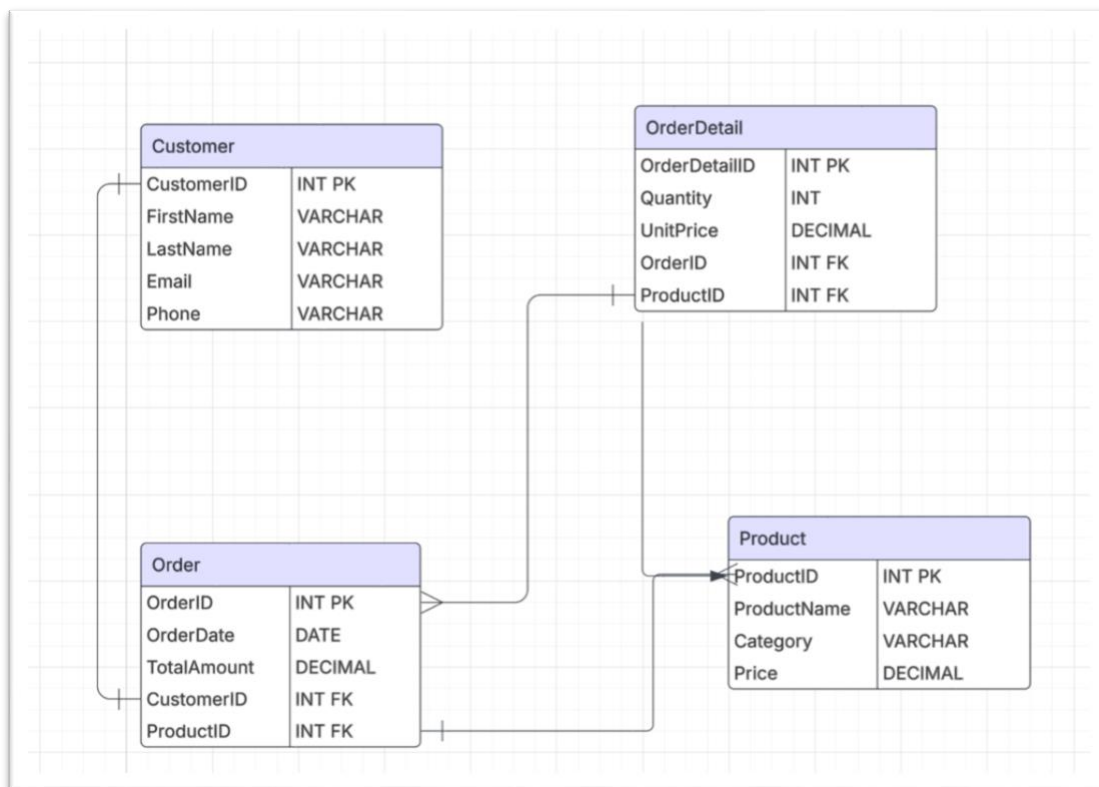
Entities: Customer, Product, Order, OrderDetail

ERD (Visio):

Private Keys: CustomerID (Customer), OrderID (Order), OrderDetailID (OrderDetail), ProductID (Product and One to many)

Order FK: CustomerID (easily able to track which customer made the order) ProductID (easy to see which product the customer ordered)

OrderDetail FK: OrderID(able to see each order's quantity and unit price) I also accidentally linked it on the ERD model to product (ignore that I meant to link it to the orderID column this mistake is only on the ERD model and not on the SQL table so don't take off points because it was a small mistake and I already screenshotted it) and product ID FK to make it so you can easily check the product information this isnt nessecary but it makes it slightly easier.



Here are my SQL tables:

FirstName	LastName	Email	Phone	CustomerID
Sam	Johnson	sjohnson@outlook.com	904-000-002	2
Greg	Williams	gwilliams@outlook.com	904-000-003	3
Peter	Griffin	pgriff@outlook.com	904-000-004	4
Lebron	James	lebron@outlook.com	904-000-005	5
NULL	NULL	NULL	NULL	NULL


OrderID	OrderDate	TotalAmount	CustomerID	ProductID
2	2025-01-02	80.00	2	2
3	2025-01-03	40.00	3	3
4	2025-01-04	60.00	4	4
5	2025-01-05	50.00	5	5
NULL	NULL	NULL	NULL	NULL

OrderDetailID	Quantity	UnitPrice	OrderID	ProductID
2	1	80.00	2	2
3	1	40.00	3	3
4	1	60.00	4	4
5	1	50.00	5	5
NULL	NULL	NULL	NULL	NULL

ProductID	ProductName	Category	Price
1	Mouse	Accessories	100.00
2	Keyboard	Accessories	80.00
3	Laptop	Hardware	40.00
4	Headphones	Accessories	60.00
5	Television	Hardware	50.00
NULL	NULL	NULL	NULL

EACH TABLE HAD 5 entries, HOWEVER THE TASK THAT ASKED ME TO REMOVE ONE OF THE CUSTOMERS BROUGHT IT DOWN TO 4 CUSTOMERS. I DIDN'T KNOW THAT I NEEDED TO SCREENSHOT IT UNTIL AFTER THAT TASK

HERE ARE THE QUERIES: The first one is just deleting the first entry




1 • `DELETE FROM OrderDetail WHERE OrderDetailID = 1;`

2 • `DELETE FROM first.Order WHERE OrderID = 1;`

3 • `DELETE FROM Customer WHERE CustomerID = 1;`

4 |



1

2 • `SELECT *`



3 `FROM Customer;`




4 • `SELECT *`



5 `FROM first.Order;`


6 |


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Result Grid   Filter Rows:


Edit:   

Export/Import:  


Result Grid


Form Editor


Field Types



OrderID	OrderDate	TotalAmount	CustomerID	ProductID
2	2025-01-02	80.00	2	2
3	2025-01-03	40.00	3	3
4	2025-01-04	60.00	4	4
5	2025-01-05	50.00	5	5
NULL	NULL	NULL	NULL	NULL

Customer 27

Order 28

Apply

Revert


```
1 • SELECT CustomerID, COUNT(*) AS OrderCount
2 FROM first.Order
3 GROUP BY CustomerID;
```

```
1 • SELECT *
2 FROM OrderDetail
3 ORDER BY Quantity Desc;
```

[illegible]

Limit to 1000 rows

```
1 • SELECT c.CustomerID, c.FirstName
2 FROM Customer c
3 LEFT JOIN first.Order o ON c.CustomerID = o.CustomerID
4 WHERE o.OrderID IS NULL;
5
```

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Result Grid Filter Rows: Search Export:

CustomerID	FirstName

Result Grid Form Editor Field Types

Limit to 1000 rows

```
1 • SELECT *
2 FROM first.Order
3 WHERE TotalAmount > 1000;
4
```

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Result Grid Filter Rows: Search Edit: Export/Import:

OrderID	OrderDate	TotalAmount	CustomerID	ProductID
NULL	NULL	NULL	NULL	NULL

Result Grid Form Editor Field Types


```

1 • SELECT c.CustomerID, c.FirstName, c.LastName
2 FROM Customer c
3 LEFT JOIN first.Order o
4   ON c.CustomerID = o.CustomerID AND o.OrderDate >= CURDATE() - INTERVAL 3 MONTH
5 WHERE o.OrderID IS NULL;
6

```

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Result Grid Filter Rows: Search Export:

	CustomerID	FirstName	LastName
2	Sam	Johnson	
3	Greg	Williams	
4	Peter	Griffin	
5	Lebron	James	

Limit to 1000 rows

```

1 • SELECT c.CustomerID, c.Firstname,c.LastName, SUM(o.TotalAmount) AS TotalSpent
2 FROM Customer c
3 JOIN first.Order o ON c.CustomerID = o.CustomerID
4 GROUP BY c.CustomerID, c.FirstName, c.LastName
5 ORDER BY TotalSpent DESC
6 LIMIT 3;
7

```

45:1

Result Grid Filter Rows: Search Export: Fetch rows:

	CustomerID	Firstname	LastName	TotalSpent
2	Sam	Johnson	80.00	
4	Peter	Griffin	60.00	
5	Lebron	James	50.00	

