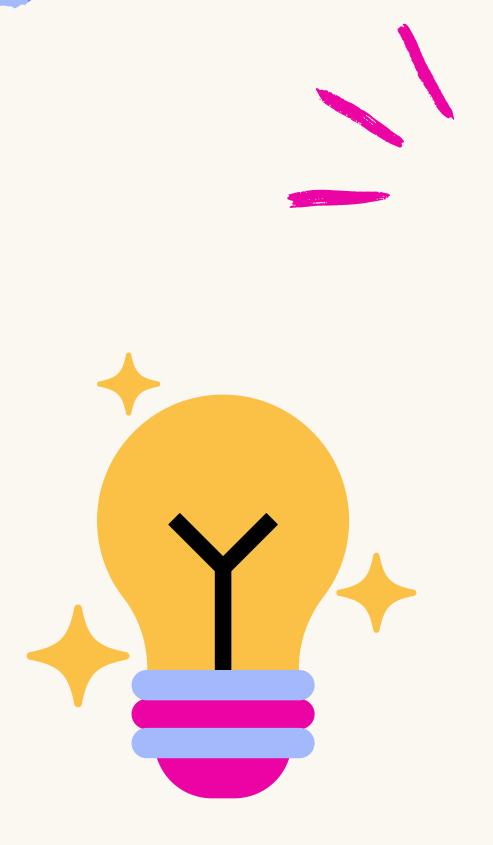
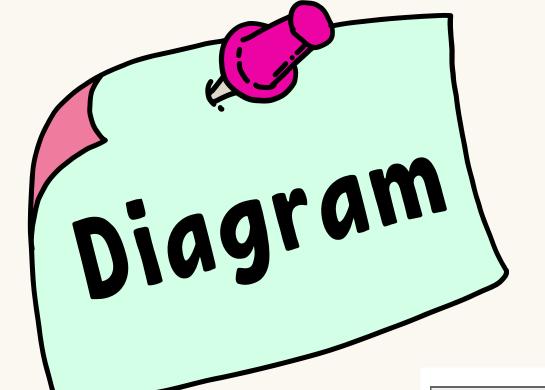
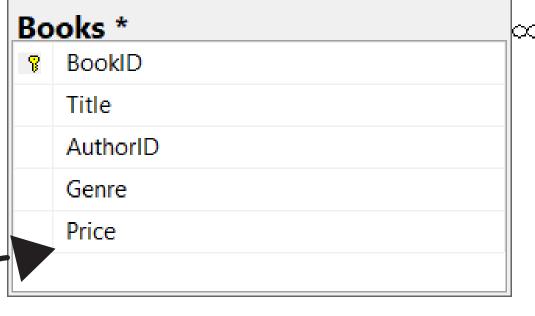
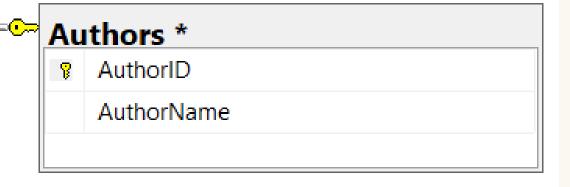
By <u>Kareem Shaaban</u>



THIRD WEEK ASSIGNMENT WITH TDI







## एएएएएएए

List the titles of books along with their authors.

### Query

```
iselect
    Title,
    AuthorName
from Authors as a inner join Books as b
on a.AuthorID = b.AuthorID;
Output
```

	Title		AuthorName
4			
1	The Grea	t Gatsby	F. Scott Fitzgerald
2	To Kill a l	Mockingbird	Harper Lee
3	1984		George Orwell
4	Pride and	l Prejudice	Jane Austen

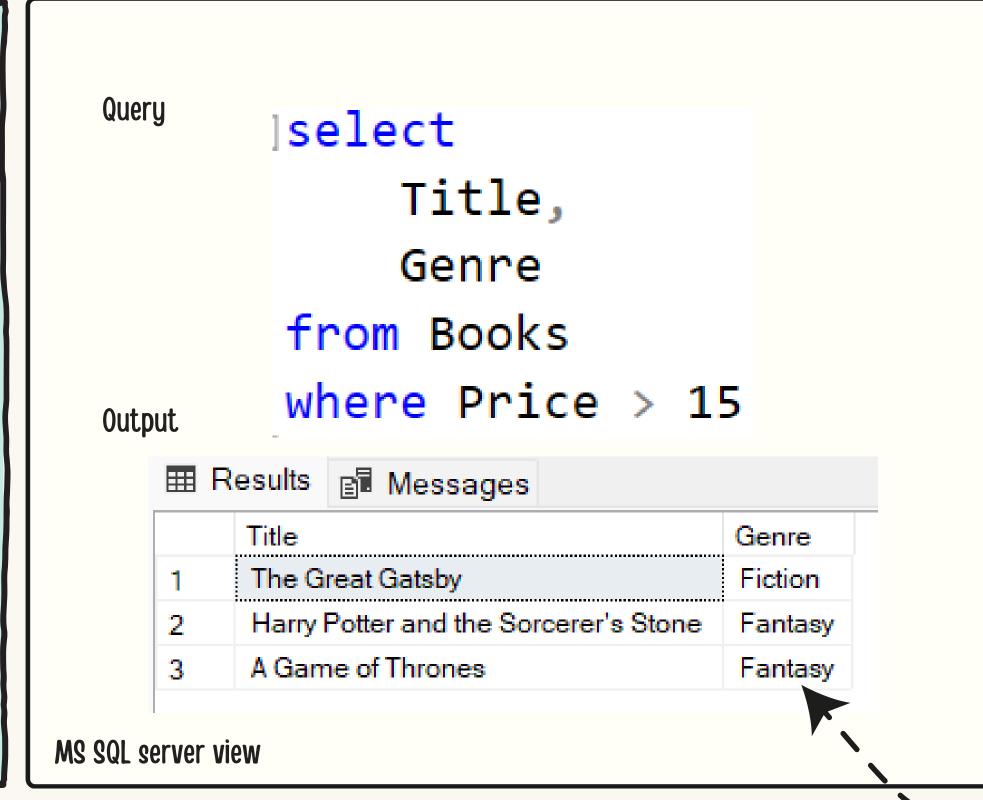
# एएएएएएएए

<sup>2</sup> Showthe titles and prices of all fantasy books.

	Results 📶 Messages	
	Title	Price
1	Harry Potter and the Sorcerer's Stone	19.99
2	The Hobbit	14.5
3	A Game of Thrones	17.99

## 0000000

Find the titles and genres of books priced less than \$15.



### 0000000

4 List all books and their authors. If a book doesn't have an author, display "Unknown".

III F	Results 🗐 Messages			
	Title	AutherName		
1	The Great Gatsby	F. Scott Fitzgerald		
2	To Kill a Mockingbird	Harper Lee		
3	1984	George Orwell		
4	Pride and Prejudice	Jane Austen		
5	The Catcher in the Rye	Unknown		
6	Harry Potter and the Sorcerer's Stone	Unknown		
7	The Hobbit	Unknown		
8	A Game of Thrones	Unknown		

### एएएएएएए

Showthe titles and prices of all books. If a book doesn't have a price, display "Price not available".

```
Query

Title,
case

when AuthorName is null then 'Unknown'
else AuthorName end as AutherName,
case

when Price is null then 'Price not available'
else round(Price,2) end as Price
from Authors as a full outer join Books as b
on a.AuthorID = b.AuthorID;
```

### Output

	_ mossages		
	Title	AutherName	Price
1	The Great Gatsby	F. Scott Fitzgerald	15.99
2	To Kill a Mockingbird	Harper Lee	12.5
3	1984	George Orwell	10.99
4	Pride and Prejudice	Jane Austen	9.99
5	The Catcher in the Rye	Unknown	11.25
6	Harry Potter and the Sorcerer's Stone	Unknown	19.99
7	The Hobbit	Unknown	14.5
8	A Game of Thrones	Unknown	17.9

## ठठठठठठठठ

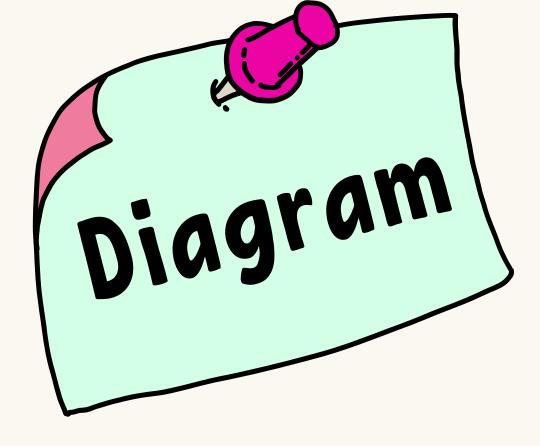
<sup>6</sup> Display all authors and the count of their books. If an author hasn't written any books, display "No books written".

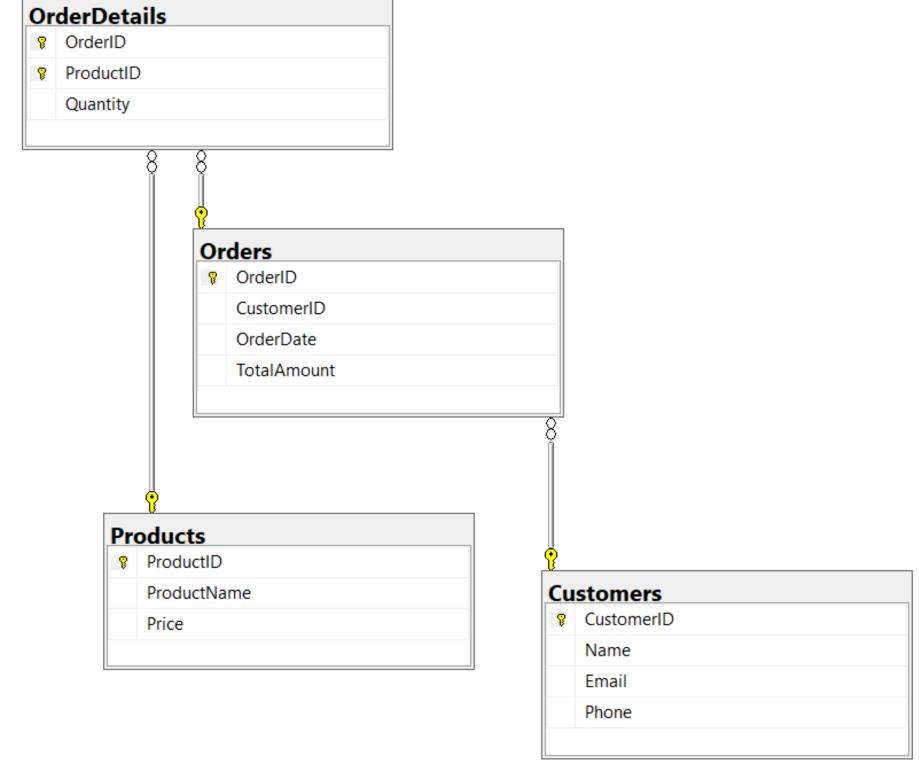
```
very

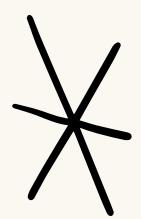
case
    when AuthorName is null then 'Unknown'
    else AuthorName end as AutherName ,
    case
    when count(BookID) = 0 then 'No books written'
    else count(BookID) end as TotalBooks
from Authors as a full outer join Books as b
on a.AuthorID = b.AuthorID
Group by AuthorName;
```

Output

	veagra Em Messa	yes
	AutherName	TotalBooks
1	F. Scott Fitzgerald	1
2	George Orwell	1
3	Harper Lee	1
4	Jane Austen	1
5	Unknown	4







### एएएएएएए

Showall products along with the order details.
Include products that haven't been ordered.

#### Query

```
products as p full outer join OrderDetails as od
on p.ProductID = od.ProductID;
```

#### **Output**

```
ProductID
                                                      Quantity
              ProductName
     ProductID
                               Price
                                     OrderID
              Laptop
              Laptop
              Smartphone
                                     102
               Headphones
                               100
                                     101
               Headphones
               External Hard Drive
                               120
                                     103
               Tablet
                               400
                                     104
```

### **उउउउउउउ**

2 Display the names of customers and the total amount spent on orders. Include customers who haven't placed any orders, showing "0" as the total amount for them.

#### Query

```
case when sum(o.TotalAmount) is null then 0
else sum(o.TotalAmount) end as TotalAmount
from Customers as c full outer join Orders as o
on c.CustomerID = o.CustomerID
Group by c.name;
```

#### **Output**

	E- mossages				
	CutomerName	TotalAmount			
1	Alice Smith	112.5			
2	Bob Johnson	90.25			
3	Emily Brown	30			
4	James Wilson	0			
5	John Doe	120.75			

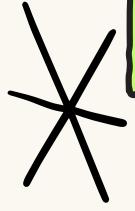
3 Showthe product names and quantities ordered. Include products without orders, displaying "0" as the quantity for them.

#### Query

```
select ProductName,
    case when sum(Quantity) is null then 0
        else sum(Quantity) end as Quantity
from Products as p full outer join OrderDetails as od
        on p.ProductID = od.ProductID
Group by ProductName;
```

#### 

	ProductName	Quantity
1	External Hard Drive	1
2	Headphones	3
3	Laptop	2
4	Smartphone	1
5	Tablet	2



## **उउउउउउउ**

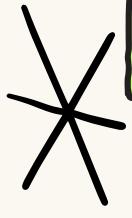
List all orders along with the names of the customers who made them. Include orders without customers and customers without orders.

### Query

```
customers as s full outer join Orders as o
on s.CustomerID = o.CustomerID;
```

### **Output**

	CustomerID	Name	Email	Phone	OrderID	CustomerID	OrderDate	TotalAmount
1	1	John Doe	john@example.com	123-456-7890	101	1	2024-04-01	75
2	1	John Doe	john@example.com	123-456-7890	103	1	2024-04-03	45.75
3	2	Alice Smith	alice@example.com	987-654-3210	102	2	2024-04-02	112.5
4	3	Bob Johnson	bob@example.com	456-789-0123	105	3	2024-04-05	90.25
5	4	Emily Brown	emily@example.com	789-012-3456	104	4	2024-04-04	30
6	5	James Wilson	james@example.com	321-654-0987	NULL	NULL	NULL	NULL





Presented By <u>Kareem Shaaban</u>