SQL exercise: Union and Union All

1. Unique Customer Names

```
Select customer_name
from online_sales
Union
Select customer_name
from store_sales;
```

Customer_name
Alice
Brian
Carol
Daniel
Emma
Fiona
George
Henry

2. All customers

```
Select customer_name
from   online_sales
Union All
Select customer_name
from store_sales;
```

Customer_name
Alice
Brian
Carol
Daniel
Emma
Fiona
Brian
George
Alice
Henry

3. Unique sale dates

```sql
Select online_sales Sale_date
From   online_sales
Union
Select Sale_date
From   store_sales
Order By Sale_date Asc;
```

Sale_date
2025-01-12
2025-01-20
2025-02-05
2025-02-08
2025-03-10
2025-03-23
2025-04-15
2025-04-18
2025-05-02
2025-05-05

4. All sales date

```sql
Select Sale_date
From online_sales
Union All
Select Sale_date
From store_sales;
```

Sale_date
2025-01-12
2025-02-05
2025-03-10
2025-04-15
2025-05-02
2025-01-20
2025-02-08
2025-03-25
2025-04-18
2025-05-05

5. High-value customers

```sql
Select customer_name, amount
FROM online_sales
Where amount >250
Union
Select customer_name, amount
FROM store_sales
Where amount >250;
```

Customer_name	Amount
Carol	300
George	310
Henry	270

Customer-name	amount	Sale date
	150	2025-02-12
Alice	250	2025-02-05
Brian	300	2025-03-14
Carol	220	2025-02-19
Daniel		
Emma	180	2025-05-02
Fiona	200	2025-02-28
Brian	250	2025-12-18
George	310	2025-12-23
Alice	150	2025-04-13
Henry	270	2025-05-05

6. Combine all sales data
   Select * customer_name, amount, sale date
   From online_sales
   Union All
   Select * customer_name, amount, sale date
   From store_sales;

7. Add Sales Source label
   Select customer_name, amount,
   sale_date, 'Online' AS source
   From Online_sales
   Union All
   Select customer_name, amount,
   sale_date, 'Store' AS source
   From Store_sales;

Customer-name	amount	Sale date	Source
Alice	150		Online
Brian	250		Online
Carol	300		Online
Daniel	220		Online
Emma	180		Online
Fiona	200		Online
Brian	250		Store
George	310		Store
Alice	150		Store
Henry	270		Store

8. Customers appearing in both tables

   Select Distinct customer_name, Count (Distinct customer_name) AS occurrences
   FROM online_sales
   GROUP by Union All
   Select Distinct customer_name, Count (Distinct customer_name) AS occurrences
   FROM store_sales
   GROUP BY customer_name
   Having occurrences > 1;

Customer-name	Occurrence
Alice	2
Brian	2

Need guidance on Q9 and Bonus Q