13 October

UNION AND UNION ALL Exercise

1. Unique Customer Name

```
SELECT DISTINCT customer_name
FROM online_sales
UNION
SELECT DISTINCT customer_name
FROM store_sales ;
```

Customer_Name
Alice
Brian
Carol
Daniel
Emma
Fiona
George
Henry

2. All Customer Names (incl. duplicates)

```
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
```
SELECT DISTINCT sale_date
FROM online_sales
UNION
SELECT DISTINCT sale_date
FROM store_sales
ORDER BY sales_date ASC;
```

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

4.
```
SELECT sales_date
FROM online_sales
UNION ALL
SELECT sales_date
FROM store_dates;
```

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

5

```
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

6.

```
SELECT customer_name, amount, sale
FROM online_sales
UNION
SELECT customer_name, amount, sale
FROM store_sales ;
```

sale_id	customer_name	amount	sale_date
1	Alice	150	2025-01-12
2	Brian	250	2025-02-05
3	Carol	300	2025-03-10
4	Daniel	~~200~~ 220	2025-04-15
5	Emma	180	2025-05-02
1	Fiona	200	2025-01-20
2	Brian	250	2025-02-08
3	George	310	2025-03-25
4	Alice	150	2025-04-18
5	Henry	270	2025-05-05

7.
```
SELECT  customer_name, amount, sales_date
FROM    online_sales
UNION
SELECT  customer_name, amount, sales_date
FROM    store_sales;
```

sale_id	customer_name	amount	sale_date	data_source
1	Alice	150	2025-01-12	online
2	Brian	250	2025-02-05	online
3	Carol	300	2025-03-10	online
4	Daniel	220	2025-04-15	online
5	Emma	180	2025-05-02	online
1	Fiona	200	2025-01-20	store
2	Brian	250	2025-02-08	store
3	George	310	2025-03-25	store
4	Alice	150	2025-04-18	store
5	Henry	270	2025-05-05	store

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```
SELECT  customer_name, amount, sale_date
FROM    online_sales
UNION ALL
SELECT  customer_name, amount, sale_date
FROM    store_sales;
```

customer_name	amount	sale_date	occurrences
Alice	150	2025-01-12	
Brian	250	2025-02-05	
Carol	300	2025-03-10	
Daniel	220	2025-04-15	
Emma	180	2025-05-02	

Hana	200	2025-01-20	
Brian	250	2025-02-08	2
George	310	2025-03-25	
Alice	150	2025-04-18	
Henry	270	2025-05-05	

(1)

9. SELECT sum(amount)
FROM online-sales
UNION ALL
SELECT sum(amount)
FROM store_sales ; 1100 + 1180

Total_Sales
2280

Bonus Question:

```
SELECT sum(amount) AS total_amount-spent
FROM online-sales
WHERE saleid = '2'
UNION
SELECT sum(amount) AS total amount-spent
FROM store-sales
WHERE sales_id = '2' ;
```

sale-id	name	total amount spent
2	Brian	500