

Exercise 7: SQL Fundamentals (UNION & UNION ALL)

```
1. SELECT customer_name  
FROM online_sales  
UNION  
SELECT customer_name  
FROM store_sales;
```

customer_name
Alice
Brian
Carol
Daniel
Emma
Fiona
George
Henry

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

sale_date
2025-01-12
2025-02-05
2025-03-10
2025-04-15
2025-05-02

4. SELECT sale_date
FROM online_sales
UNION ALL
SELECT sale_date
FROM store_sales

Sale_date
2025-01-20
2025-02-09
2025-03-25
2025-04-18
2025-05-05

5. SELECT customer_name,
amount
FROM online_sales
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_date
FROM online_sales
UNION ALL
SELECT customer_name,
amount,
sale_date
FROM store_sales;

customer_name	amount	sale_date
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
Fiona	200	2025-01-20
Brian	250	2025-02-09
George	310	2025-03-25
Alice	150	2025-04-18
Henry	270	2025-05-05

7. SELECT *
FROM online_sales
UNION ALL
SELECT *
FROM store_sales
IF (online_sales, 'online') AS Source
IF (store_sales, 'store') AS Source;

customer_name	amount	sale_date	Source
Alice	150	2025-01-12	Online
Brian	250	2025-02-05	Online
Carol	300	2025-03-10	Online
Daniel	220	2025-04-15	Online
Emma	180	2025-05-02	Online
Fiona	200	2025-01-20	Store
Brian	250	2025-02-09	Store
George	310	2025-03-25	Store
Alice	150	2025-04-18	Store
Henry	270	2025-05-05	Store

SELECT customer_name

FROM online_sales

UNION ALL

SELECT customer_name

FROM store_sales

GROUP BY customer_name

HAVING customer_name IN online_sales AND store_sales AS occurrences;

customer_name	occurrence
Alice	2
Brian	2

7. SELECT amount

FROM online_sales

UNION ALL

SELECT amount

FROM store_sales

SELECT SUM(*) AS total_amount;

OR

SELECT SUM(*) AS total_amount

FROM online_sales AND store_sales;

Total_amount
2280

Bonus Challenge (Optional)

SELECT customer_name,

SUM(amount) AS total_spent

FROM online_sales AND store_sales;

customer_name	total_amount
Brian	500
George	310
Carol	300
Henry	270
Daniel	270
Emma	180
Fiona	200
Alice	300