

Exercise 7: SQL Fundamentals (UNION & UNION ALL)

(1) SELECT customer-name,
From online-sales
UNION
SELECT customer-name
From storesales,

customer-name
Alice
Brian
Carol
Daniel
Emma
Fiona
George
Henny

(2) SELECT customer-name
From online-sales
UNION ALL
SELECT customer-name
From storesales,

customer-name
Alice
Brian
Carol
Daniel
Emma
Fiona
Brian
George
Alice
Henny

(3) SELECT 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
2025-02-25
2025-04-15
2025-04-18
2025-05-02
2025-05-05

④ 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 SELECT DISTINCT customer-name,

amount

From online-sales

UNION ALL

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 online-sales

Customer-name	Amount	Sale-date
Alice	180	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	280	2025-02-08
George	310	2025-03-25
Alice	150	2025-04-18
Henry	270	2025-05-05

(7) 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

Customername	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	2025-02-08	Store
George	300	2025-03-15	Store
Alice	150	2025-04-18	Store
Henry	270	2025-05-05	Store

(8) SELECT customer-name,
COUNT(*) AS occurrences
FROM online-sales
UNION ALL
SELECT customer-name,
FROM store-sales
GROUP BY customer-name
HAVING COUNT(*) > 1

Customername	Occurrences
Alice	2
Brian	2

(9) SELECT sum(amount) AS total amount
FROM
(SELECT customer-name
FROM online-sales
UNION ALL
SELECT customer-name
FROM store-sales) AS combined

Total_Amount
2280

Bonus

```
SELECT customer-name  
      SUM(Amount) AS total-spent  
  FROM  
(SELECT customer-name,  
        amount  
     From online-sales  
UNION ALL  
SELECT customer-name,  
        amount  
     From store-sales) AS combined-sales  
GROUP BY customer-name  
ORDER BY customer-name,
```

Customer-name	total-spent
Alice	300
Brian	500
Carol	300
Daniel	220
Emma	180
Fiona	200
George	310
Henry	270