

## Exercise 7.1

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	Fiona
Brian	Brian
Carol	George
Daniel	Alice
Emma	Henry.

```

SELECT sale_date
FROM online_sales
UNION
SELECT sale_date
FROM store_sales
ORDER BY sale_date;

```

Sale\_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

```

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  
 2025-05-20  
 2025-02-08  
 2025-03-25

2025-04-12  
 2025-05-05

6 SELECT DISTINCT customer\_name,  
 amount  
 FROM (SELECT customer\_name,  
 amount  
 FROM online\_sales  
 UNION ALL  
 SELECT customer\_name,  
 amount  
 FROM store\_sales) AS combined\_sales  
 WHERE amount > 250;

Customer_name	combined_sales
Brian	£250
Carol	£300
Brian	£256
George	£316
Henry	£270

7 SELECT customer\_name,  
 amount,  
 sale\_date  
 FROM (SELECT customer\_name,  
 amount,  
 sale\_date  
 FROM online\_sales  
 UNION ALL  
 SELECT customer\_name,  
 amount,  
 sale\_date  
 FROM store\_sales) AS combined\_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	2025-06-07
Brian	250	2025-07-25
George	310	2025-08-18
Alice	150	2025-09-03
Harry	270	

**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	2025-01-12	Online
Alice	150	2025-04-18	Store
Brian	250	2025-02-05	Online
Brian	250	2025-02-08	Store
Carol	300	2025-03-10	Online
Daniel	220	2025-04-15	Online

Customer-name	Amount	Sale date	Source
Fiona	200	2025-01-20	Store
George	310	2025-03-25	Store
Henry	270	2025-05-05	Store

⑧ **SELECT** customer-name,  
COUNT (\*) **AS** occurrences  
**FROM** (**SELECT** customer-name  
**FROM** online-sales

**UNION ALL**

**SELECT** customer-name  
**FROM** store-sales ) **AS** combined\_sales

**GROUP BY** customer-name  
**HAVING** COUNT (\*) > 1;

Customer-name	Occurrence
Alice	2
Brian	2