

Musawakhe Andrew Nzama

Exercise 7

SQL Fundamentals (Union & Union All)

① Unique Customer Names

Select Customer-name

Union

Select Customer_name

FROM Store-sales;

Customer - Name

Active

Brian

Carel

Daniel

Emma

Fiona

George

Henry

Musawakhe Andrew Nzama

Exercise 7

SQL Fundamentals (Union & Union All)

① Unique Customer Names

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

② Unique Sales Dates

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

2025-03-25

2025-04-15

2025-04-18

2025-05-02

2025-05-05

(A) All Sales Dates

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

Select Custom

From Online

Where an

Union

Select C

From S

Where

Custom

Carol

Brian

George

Henr

Sel

C

C

H

⑤ High-Value Customers

Select Customer-name, amount

From online-sales

Where amount > 250

Union

Select Customer-name, amount

From Store-Sales

Where amount > 250;

Customer	Amount
Carol	300
Brian	250
George	310
Henry	270

Solution:

Carol	300
George	310
Henry	270

⑥ Combined Sales Data

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	230	2025-02-08
George	310	2025-03-25
Alice	150	2025-04-18
Henry	270	2025-05-05

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	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	230	2025-02-08	Store
George	310	2025-03-25	Store
Alice	150	2025-04-18	Store
Henry	270	2025-05-05	Store

⑧ Customers Appearing in Both tables

Select Customer-name, count(*) AS Occurrences
FROM (

Select Customer-name FROM online_sales
Union All

Select Customer-name FROM store-sales

) AS All-Customers

Group by customer-name

Having count(*) >= 2;

Customer-name	Occurrences
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Alice	2
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Brian	2
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⑨ Total Combined Sales

Select Sum(amount) AS total amount

FROM (

Select amount FROM online_sales

Union All

Select amount FROM store-sales

) AS all sales

Total Amount

9300

⑩ Total Spent Per Customer

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 All-Sales

Group by Customer_name;

Customer-Name

Total spent

Alice	300
Brian	500
Carol	300
Daniel	220
Emma	180
Fiona	200
George	310
Henry	270