

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

Alice

Brian

Carel

Daniel

Emma

Fiona

George

Henry

Musawathhe Anowar Nizam

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

Cleopatra

Alice

Henry

② Unique Sales Dates

Select Sale-date

From Online-Sales

Union

Select Sale Date

From Store Sales

Order by Sale-date ASC;

④ 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

⑤ 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

⑥ High-Value

Select Customer

From Online

Where amount

Union Select

From Sales

Where amount

Customer

Carol

Brian

George

Henry

Sales

Car

Br

Ge

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 sales

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 Table

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
Alice	2
Brian	2

⑦ 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

\$300

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	300
Henry	270