BRIGHTLEARN TUTORIALS

DATA ANALYTICS

EXERCISE 7 : UNION AND UNION ALL

1. Unique Customer Name

Syntax :

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

Output :

customer_name
Alice
Brian
Carol
Daniel
Emma
Fiona
George
Henry

2. All customers (including Duplicates)

Syntax :

```
SELECT customer_name
 FROM online_sales
UNION ALL
SELECT customer_name
 FROM store_sales;
```

Output :

customer_name
Alice

Brian
Carol
Daniel
Emma
Fiona
Brian
George
Alice
Henry

3. Unique Sale Dates

Syntax :

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

Output :

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

4. All Sales Dates

Syntax :

```
SELECT sale_date
FROM online_sales
UNION ALL
SELECT sale_date
FROM store_sales;
```

Output :

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 customers

Syntax :

```
SELECT customer_name,
       amount
FROM online_sales
WHERE amount > 250
UNION
SELECT customer_name,
       amount
FROM store_sales
WHERE amount > 250;
```

Output :

customer	amount
Carol	300
George	310
Henry	270

6. Combined Sales Data

Syntax :

```
SELECT customer_name,
       amount,
       sale_date
FROM online_sales
UNION ALL
SELECT customer_name,
       amount,
       sale_date
FROM store_sales;
```

Output :

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

7. Add Sales Source Label

Syntax :

```
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;
```

Output:

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	2025-02-08	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

Syntax:

```
SELECT customer_name,
COUNT (*) AS occurrences
FROM (
 SELECT customer_name FROM online_sales
   UNION ALL
 SELECT customer_name FROM Store_sales
 ) AS combined
GROUP By customer_name
HAVING COUNT (*) > 1 ;
```

Output:

Customer_name	occurrences
Alice	2
Brian	2

9. Total combined sales

Syntax:

```
SELECT SUM (amount) AS total_amount
 SELECT amount FROM Online_sales UNION ALL
 SELECT amount FROM store_sales
```

Output:

total_amount
2260