Task 6

04 May 2025 18:47

Create table Online_sales:

Programiz
Online SQL Editor

Interactive SQL Course

Online_sales [-]
- order_id [int]
- order_date [date]
- amount [decimal(10, 2)]
- product_id [int]

Input

Run SQL

```
CREATE TABLE online_sales (
    order_id INT PRIMARY KEY,
    order_date DATE NOT NULL,
    amount DECIMAL(10, 2) NOT NULL,
    product_id INT NOT NULL
);
```

Available Tables

Online_sales

order_id	order_date	amount	product_id
empty			

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Online_sales [-]
- order_id [int]
- order_date [date]
- amount [decimal(10, 2)]
- product_id [int]

Input

Run SQL

```
--Insert data in online_sales table

INSERT INTO online_sales (order_id, order_date, amount, product_id) VALUES
(101, '2025-01-03', 150.75, 1),
(102, '2025-01-01', 99.99, 2),
(103, '2025-02-05', 249.50, 3),
(104, '2025-02-20', 89.00, 1),
(105, '2025-03-12', 349.00, 4),
(106, '2025-03-25', 120.00, 2),
(107, '2025-04-01', 175.25, 1),
(108, '2025-04-18', 60.75, 3),
(109, '2025-05-03', 200.00, 4),
(110, '2025-05-10', 310.90, 2);
```

Output

SQL query successfully executed. However, the result set is empty.

Available Tables

Online_sales

order_id	order_date	amount	product_id
101	2025-01-03	150.75	1
102	2025-01-01	99.99	2
103	2025-02-05	249.5	3
104	2025-02-20	89	1
105	2025-03-12	349	4
106	2025-03-25	120	2
107	2025-04-01	175.25	1
108	2025-04-18	60.75	3
109	2025-05-03	200	4
110	2025-05-10	310.9	2

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Online SQL Editor

Online_sales [-]
- order_id [int]
- order_date [date]
- amount [decimal(10, 2)]
- product_id [int]

Input

Run SQL

```
--Fetch the data

select * from online_sales
```

Output

order_id	order_date	amount	product_id
101	2025-01-03	150.75	1
102	2025-01-01	99.99	2
103	2025-02-05	249.5	3
104	2025-02-20	89	1
105	2025-03-12	349	4
106	2025-03-25	120	2
107	2025-04-01	175.25	1
108	2025-04-18	60.75	3
109	2025-05-03	200	4
110	2025-05-10	310.9	2

Programiz
Online SQL Editor

Online_sales [-]
- order_id [int]
- order_date [date]
- amount [decimal(10, 2)]
- product_id [int]

Input

Run SQL

```sql
--Question 1 = a. Use EXTRACT(MONTH FROM order_date) for month.
SELECT
    strftime('%m', order_date) AS order_month
FROM
    online_sales
ORDER BY
    order_month;
```

Output

order_month
01
01
02
02
03
03
04
04
05
05

Programiz
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Online_sales [-]
- order_id [int]
- order_date [date]
- amount [decimal(10, 2)]
- product_id [int]

Input

Run SQL

```sql
--If we want month name
SELECT
    strftime('%m', order_date) AS month_number,
    CASE strftime('%m', order_date)
        WHEN '01' THEN 'January'
        WHEN '02' THEN 'February'
        WHEN '03' THEN 'March'
        WHEN '04' THEN 'April'
        WHEN '05' THEN 'May'
        WHEN '06' THEN 'June'
        WHEN '07' THEN 'July'
        WHEN '08' THEN 'August'
        WHEN '09' THEN 'September'
        WHEN '10' THEN 'October'
        WHEN '11' THEN 'November'
        WHEN '12' THEN 'December'
    END AS month_name
FROM
    online_sales;
```

Output

month_number	month_name
01	January
01	January
02	February
02	February
03	March
03	March
04	April
04	April
05	May
05	May

Programiz
Online SQL Editor

Online_sales [-]
- order_id [int]
- order_date [date]
- amount [decimal(10, 2)]
- product_id [int]

Input

Run SQL

```sql
-- question 2 a.  GROUP BY year/month.
SELECT
    strftime('%Y', order_date) AS order_year,
    strftime('%m', order_date) AS order_month,
    SUM(amount) AS total_revenue,
    COUNT(DISTINCT order_id) AS total_orders
FROM
    online_sales
GROUP BY
    order_year,
    order_month
ORDER BY
    order_year,
    order_month;
```

Output

order_year	order_month	total_revenue	total_orders
2025	01	250.74	2
2025	02	338.5	2
2025	03	469	2
2025	04	236	2
2025	05	510.9	2

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Online_sales [-]
- order_id [int]
- order_date [date]
- amount [decimal(10, 2)]
- product_id [int]

Input

Run SQL

```sql
-- question 2 a.  Sum of total revenue
SELECT
    strftime('%Y', order_date) AS order_year,
    strftime('%m', order_date) AS order_month,
    SUM(amount) AS total_revenue
FROM
    online_sales
GROUP BY
    order_year,
    order_month
ORDER BY
    order_year,
    order_month;
```

Output

order_year	order_month	total_revenue
2025	01	250.74
2025	02	338.5
2025	03	469
2025	04	236
2025	05	510.9

Programiz
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Online_sales [-]
- order_id [int]
- order_date [date]
- amount [decimal(10, 2)]
- product_id [int]

Input

Run SQL

```
-- question 3 COUNT(DISTINCT order_id) for volume.

select count(distinct order_id) from Online_sales
```

Output

count(distinct order_id)
10

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Online_sales [-]
- order_id [int]
- order_date [date]
- amount [decimal(10, 2)]
- product_id [int]

Input

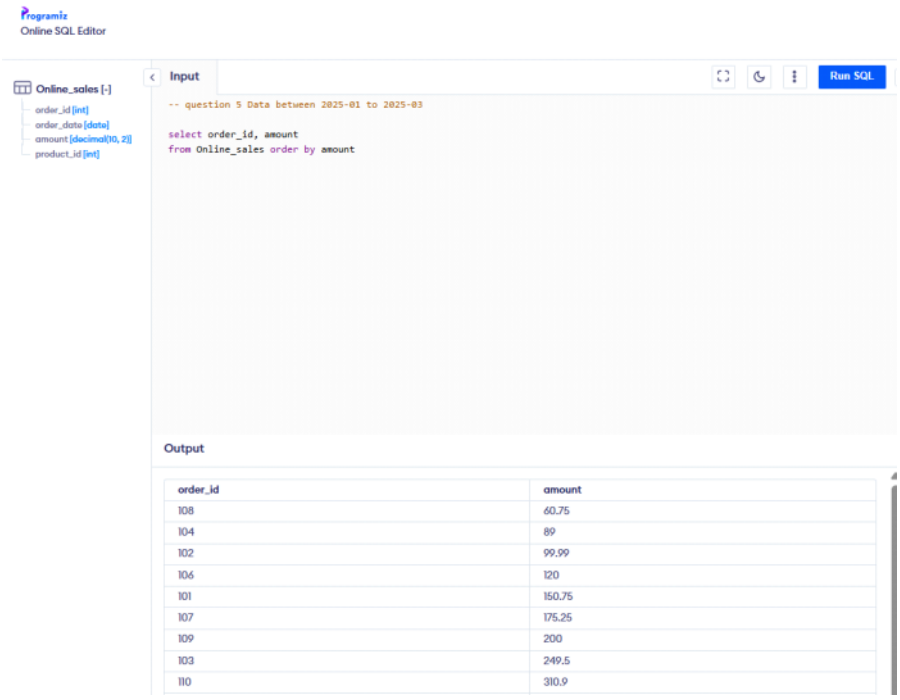
Run SQL

```
-- question 5 Data between 2025-01 to 2025-03

select * from Online_sales
WHERE order_date BETWEEN '2025-01' AND '2025-03' order by product_id
```

Output

order_id	order_date	amount	product_id
101	2025-01-03	150.75	1
104	2025-02-20	89	1
102	2025-01-01	99.99	2
103	2025-02-05	249.5	3


Programiz
Online SQL Editor
Online_sales [-]
order_id [int]
order_date [date]
amount [decimal(10, 2)]
product_id [int]
Input
Run SQL
-- question 5 Data between 2025-01 to 2025-03
select order_id, amount
from Online_sales order by amount
Output
order_id amount
108 60.75
104 89
102 99.99
106 120
101 150.75
107 175.25
109 200
103 249.5
110 310.9