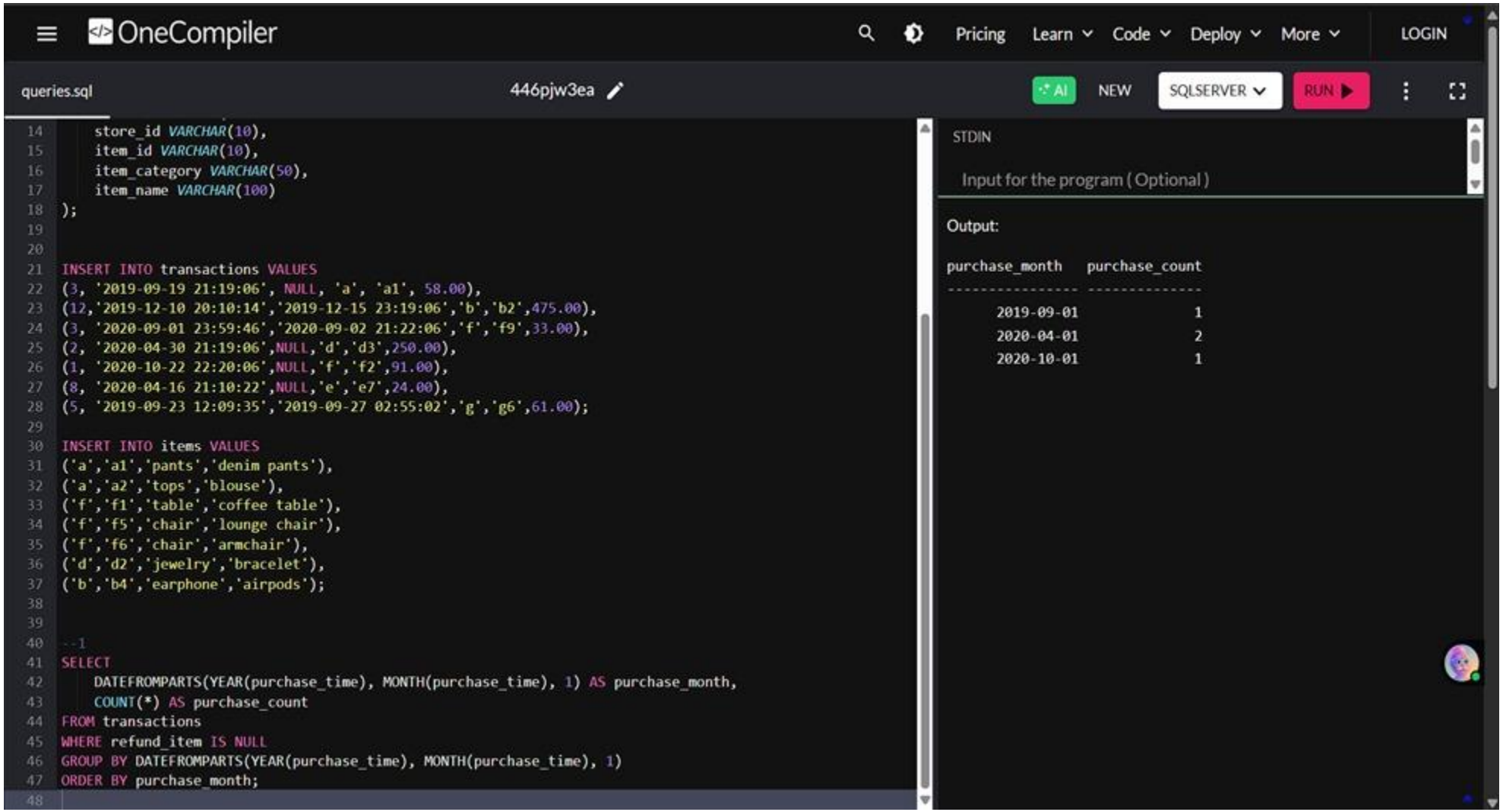

OneCompiler
Pricing
Learn
Code
Deploy
More
LOGIN
queries.sql
446pjw3ea
AI
NEW
SQLSERVER
RUN
store_id VARCHAR(10),
item_id VARCHAR(10),
item_category VARCHAR(50),
item_name VARCHAR(100)
);
INSERT INTO transactions VALUES
(3, '2019-09-19 21:19:06', NULL, 'a', 'a1', 58.00),
(12,'2019-12-10 20:10:14','2019-12-15 23:19:06','b','b2',475.00),
(3, '2020-09-01 23:59:46','2020-09-02 21:22:06','f','f9',33.00),
(2, '2020-04-30 21:19:06',NULL,'d','d3',250.00),
(1, '2020-10-22 22:20:06',NULL,'f','f2',91.00),
(8, '2020-04-16 21:10:22',NULL,'e','e7',24.00),
(5, '2019-09-23 12:09:35','2019-09-27 02:55:02','g','g6',61.00);
INSERT INTO items VALUES
('a','a1','pants','denim pants'),
('a','a2','tops','blouse'),
('f','f1','table','coffee table'),
('f','f5','chair','lounge chair'),
('f','f6','chair','armchair'),
('d','d2','jewelry','bracelet'),
('b','b4','earphone','airpods');
--1
SELECT
DATEFROMPARTS(YEAR(purchase_time), MONTH(purchase_time), 1) AS purchase_month,
COUNT(*) AS purchase_count
FROM transactions
WHERE refund_item IS NULL
GROUP BY DATEFROMPARTS(YEAR(purchase_time), MONTH(purchase_time), 1)
ORDER BY purchase_month;
STDIN
Input for the program (Optional)
Output:
purchase_month purchase_count
2019-09-01 1
2020-04-01 2
2020-10-01 1

OneCompiler

Pricing Learn Code Deploy More LOGIN

queries.sql 446pjw3ea AI NEW SQLSERVER RUN

```
INSERT INTO transactions VALUES
(3, '2019-09-19 21:19:06', NULL, 'a', 'a1', 58.00),
(12,'2019-12-10 20:10:14','2019-12-15 23:19:06','b','b2',475.00),
(3, '2020-09-01 23:59:46','2020-09-02 21:22:06','f','f9',33.00),
(2, '2020-04-30 21:19:06',NULL,'d','d3',250.00),
(1, '2020-10-22 22:20:06',NULL,'f','f2',91.00),
(8, '2020-04-16 21:10:22',NULL,'e','e7',24.00),
(5, '2019-09-23 12:09:35','2019-09-27 02:55:02','g','g6',61.00);

INSERT INTO items VALUES
('a','a1','pants','denim pants'),
('a','a2','tops','blouse'),
('f','f1','table','coffee table'),
('f','f5','chair','lounge chair'),
('f','f6','chair','armchair'),
('d','d2','jewelry','bracelet'),
('b','b4','earphone','airpods');


WITH store_counts AS (
    SELECT
        store_id,
        COUNT(*) AS num_transactions
    FROM transactions
    WHERE purchase_time >= '2020-10-01' -- Removed DATE keyword
      AND purchase_time < '2020-11-01'  -- Removed DATE keyword
    GROUP BY store_id
)
SELECT COUNT(*) AS num_stores_with_5_plus_orders
FROM store_counts
WHERE num_transactions >= 5;
```

STDIN

Input for the program (Optional)

Output:

```
num_stores_with_5_plus_orders
-----------------------------
                            0
```

OneCompiler

Pricing Learn Code Deploy More LOGIN

queries.sql 446pjw3ea AI NEW SQLSERVER RUN

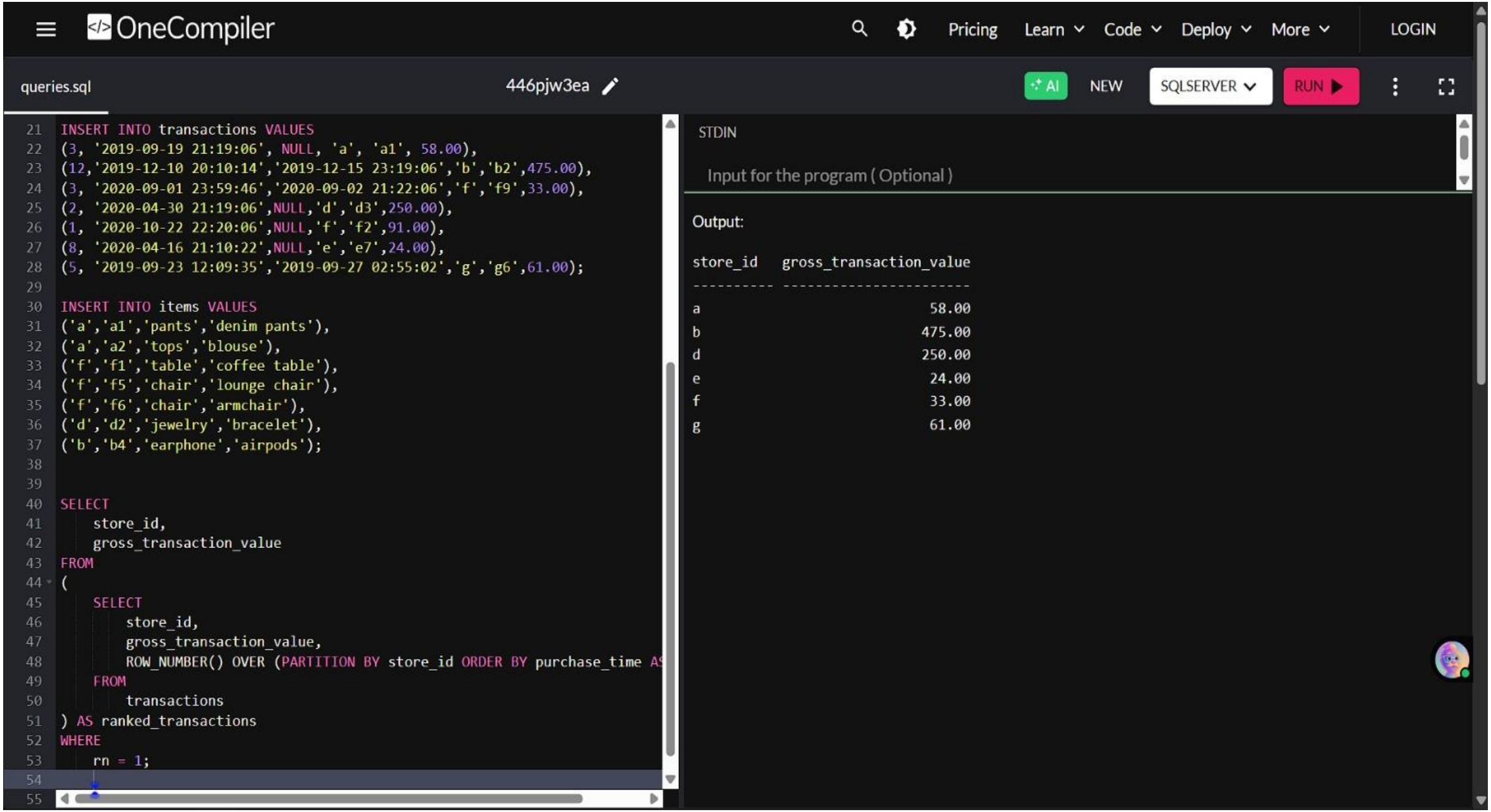
```
    item_category VARCHAR(50),
    item_name VARCHAR(100)
);


INSERT INTO transactions VALUES
(3, '2019-09-19 21:19:06', NULL, 'a', 'a1', 58.00),
(12,'2019-12-10 20:10:14','2019-12-15 23:19:06','b','b2',475.00),
(3, '2020-09-01 23:59:46','2020-09-02 21:22:06','f','f9',33.00),
(2, '2020-04-30 21:19:06',NULL,'d','d3',250.00),
(1, '2020-10-22 22:20:06',NULL,'f','f2',91.00),
(8, '2020-04-16 21:10:22',NULL,'e','e7',24.00),
(5, '2019-09-23 12:09:35','2019-09-27 02:55:02','g','g6',61.00);

INSERT INTO items VALUES
('a','a1','pants','denim pants'),
('a','a2','tops','blouse'),
('f','f1','table','coffee table'),
('f','f5','chair','lounge chair'),
('f','f6','chair','armchair'),
('d','d2','jewelry','bracelet'),
('b','b4','earphone','airpods');


SELECT
    store_id,
    MIN(DATEDIFF(MINUTE, purchase_time, refund_item)) AS shortest_refund_i
FROM
    transactions
WHERE
    refund_item IS NOT NULL
GROUP BY
    store_id;
```

STDIN

Input for the program (Optional)

Output:

```
store_id   shortest_refund_interval_min
---------- ----------------------------
b                                  7389
f                                  1283
g                                  5206
```


OneCompiler
Pricing
Learn
Code
Deploy
More
LOGIN
queries.sql
446pjw3ea
AI
NEW
SQLSERVER
RUN
INSERT INTO transactions VALUES
(3, '2019-09-19 21:19:06', NULL, 'a', 'a1', 58.00),
(12,'2019-12-10 20:10:14','2019-12-15 23:19:06','b','b2',475.00),
(3, '2020-09-01 23:59:46','2020-09-02 21:22:06','f','f9',33.00),
(2, '2020-04-30 21:19:06',NULL,'d','d3',250.00),
(1, '2020-10-22 22:20:06',NULL,'f','f2',91.00),
(8, '2020-04-16 21:10:22',NULL,'e','e7',24.00),
(5, '2019-09-23 12:09:35','2019-09-27 02:55:02','g','g6',61.00);
INSERT INTO items VALUES
('a','a1','pants','denim pants'),
('a','a2','tops','blouse'),
('f','f1','table','coffee table'),
('f','f5','chair','lounge chair'),
('f','f6','chair','armchair'),
('d','d2','jewelry','bracelet'),
('b','b4','earphone','airpods');
SELECT
store_id,
gross_transaction_value
FROM
(
SELECT
store_id,
gross_transaction_value,
ROW_NUMBER() OVER (PARTITION BY store_id ORDER BY purchase_time AS
FROM
transactions
) AS ranked_transactions
WHERE
rn = 1;
STDIN
Input for the program (Optional)
Output:
store_id gross_transaction_value
a 58.00
b 475.00
d 250.00
e 24.00
f 33.00
g 61.00

OneCompiler

Pricing Learn Code Deploy More LOGIN

queries.sql 446pjw3ea AI NEW SQLSERVER RUN

```
('b','b4','earphone','airpods');


WITH first_purchase AS (
    SELECT
        t.*,
        ROW_NUMBER() OVER (
            PARTITION BY buyer_id
            ORDER BY purchase_time
        ) AS rn
    FROM transactions t
    -- If you want only non-refunded first purchases, use:
    -- WHERE refund_item IS NULL
),
first_purchase_items AS (
    SELECT
        fp.buyer_id,
        fp.store_id,
        fp.item_id,
        i.item_name
    FROM first_purchase fp
    JOIN items i
      ON fp.store_id = i.store_id
     AND fp.item_id  = i.item_id
    WHERE fp.rn = 1
)
SELECT TOP 1
    item_name,
    COUNT(*) AS num_buyers
FROM first_purchase_items
GROUP BY item_name
ORDER BY num_buyers DESC, item_name;


```

STDIN

Input for the program (Optional)

Output:

```
item_name
----------
denim pants
```

OneCompiler

Pricing Learn Code Deploy More LOGIN

queries.sql 446pjw3ea AI NEW SQLSERVER RUN

```
20
21 INSERT INTO transactions VALUES
22 (3, '2019-09-19 21:19:06', NULL, 'a', 'a1', 58.00),
23 (12,'2019-12-10 20:10:14','2019-12-15 23:19:06','b','b2',475.00),
24 (3, '2020-09-01 23:59:46','2020-09-02 21:22:06','f','f9',33.00),
25 (2, '2020-04-30 21:19:06',NULL,'d','d3',250.00),
26 (1, '2020-10-22 22:20:06',NULL,'f','f2',91.00),
27 (8, '2020-04-16 21:10:22',NULL,'e','e7',24.00),
28 (5, '2019-09-23 12:09:35','2019-09-27 02:55:02','g','g6',61.00);
29
30 INSERT INTO items VALUES
31 ('a','a1','pants','denim pants'),
32 ('a','a2','tops','blouse'),
33 ('f','f1','table','coffee table'),
34 ('f','f5','chair','lounge chair'),
35 ('f','f6','chair','armchair'),
36 ('d','d2','jewelry','bracelet'),
37 ('b','b4','earphone','airpods');
38
39
40 SELECT
41     t.*,
42     i.item_category,
43     i.item_name,
44     CASE
45         WHEN t.refund_item IS NOT NULL
46              AND DATEDIFF(HOUR, t.purchase_time, t.refund_item) <= 72
47         THEN 1
48         ELSE 0
49     END AS refund_processable_flag
50 FROM transactions t
51 LEFT JOIN items i
52   ON t.store_id = i.store_id
53  AND t.item_id  = i.item_id;
54
```

STDIN

Input for the program (Optional)

Output:

buyer_id	purchase_time	refund_item	store_id	item_id	gross_transac
3	2019-09-19 21:19:06.000	NULL	a	a1	
12	2019-12-10 20:10:14.000	2019-12-15 23:19:06.000	b	b2	
3	2020-09-01 23:59:46.000	2020-09-02 21:22:06.000	f	f9	
2	2020-04-30 21:19:06.000	NULL	d	d3	
1	2020-10-22 22:20:06.000	NULL	f	f2	
8	2020-04-16 21:10:22.000	NULL	e	e7	
5	2019-09-23 12:09:35.000	2019-09-27 02:55:02.000	g	g6	

OneCompiler

Pricing Learn Code Deploy More LOGIN

queries.sql 446pjw3ea AI NEW SQLSERVER RUN

```
20
21  INSERT INTO transactions VALUES
22  (3, '2019-09-19 21:19:06', NULL, 'a', 'a1', 5
23  (12,'2019-12-10 20:10:14','2019-12-15 23:19:0
24  (3, '2020-09-01 23:59:46','2020-09-02 21:22:0
25  (2, '2020-04-30 21:19:06',NULL,'d','d3',250.0
26  (1, '2020-10-22 22:20:06',NULL,'f','f2',91.00
27  (8, '2020-04-16 21:10:22',NULL,'e','e7',24.00
28  (5, '2019-09-23 12:09:35','2019-09-27 02:55:0
29
30  INSERT INTO items VALUES
31  ('a','a1','pants','denim pants'),
32  ('a','a2','tops','blouse'),
33  ('f','f1','table','coffee table'),
34  ('f','f5','chair','lounge chair'),
35  ('f','f6','chair','armchair'),
36  ('d','d2','jewelry','bracelet'),
37  ('b','b4','earphone','airpods');
38
39
40  WITH ranked_purchases AS (
41      SELECT
42          t.*,
43          ROW_NUMBER() OVER (
44              PARTITION BY buyer_id
45              ORDER BY purchase_time
46          ) AS purchase_rank
47      FROM transactions t
48  )
49  SELECT *
50  FROM ranked_purchases
51  WHERE purchase_rank = 2;
52
53
```

STDIN

Input for the program (Optional)

Output:

buyer_id	purchase_time	refund_item	store_id	item_id	gross_transaction_value	purchase_rank
3	2020-09-01 23:59:46.000	2020-09-02 21:22:06.000	f	f9	33.00	

```sql
INSERT INTO transactions VALUES
(3, '2019-09-19 21:19:06', NULL, 'a', 'a1', 58.00),
(12,'2019-12-10 20:10:14','2019-12-15 23:19:06','b','b2',475.00),
(3, '2020-09-01 23:59:46','2020-09-02 21:22:06','f','f9',33.00),
(2, '2020-04-30 21:19:06',NULL,'d','d3',250.00),
(1, '2020-10-22 22:20:06',NULL,'f','f2',91.00),
(8, '2020-04-16 21:10:22',NULL,'e','e7',24.00),
(5, '2019-09-23 12:09:35','2019-09-27 02:55:02','g','g6',61.00);

INSERT INTO items VALUES
('a','a1','pants','denim pants'),
('a','a2','tops','blouse'),
('f','f1','table','coffee table'),
('f','f5','chair','lounge chair'),
('f','f6','chair','armchair'),
('d','d2','jewelry','bracelet'),
('b','b4','earphone','airpods');


WITH ranked_transactions AS (
    SELECT
        buyer_id,
        purchase_time,
        ROW_NUMBER() OVER (
            PARTITION BY buyer_id
            ORDER BY purchase_time
        ) AS rn
    FROM transactions
)
SELECT
    buyer_id,
    purchase_time AS second_transaction_time
FROM ranked_transactions
WHERE rn = 2
ORDER BY buyer_id;
```


Output:

```
buyer_id    second_transaction_time
----------- -----------------------
          3 2020-09-01 23:59:46.000
```