QUESTION

Above Average Product Prices Medium

10 Points

Given a table of transactions and products, write a query to return the product ID, product price, and average transaction price of all products with a price greater than the average transaction price.

Output Schema:

Column	Type
product_id	INT
product_price	FLOAT
avg_transaction_price	FLOAT

TABLE SCHEMA

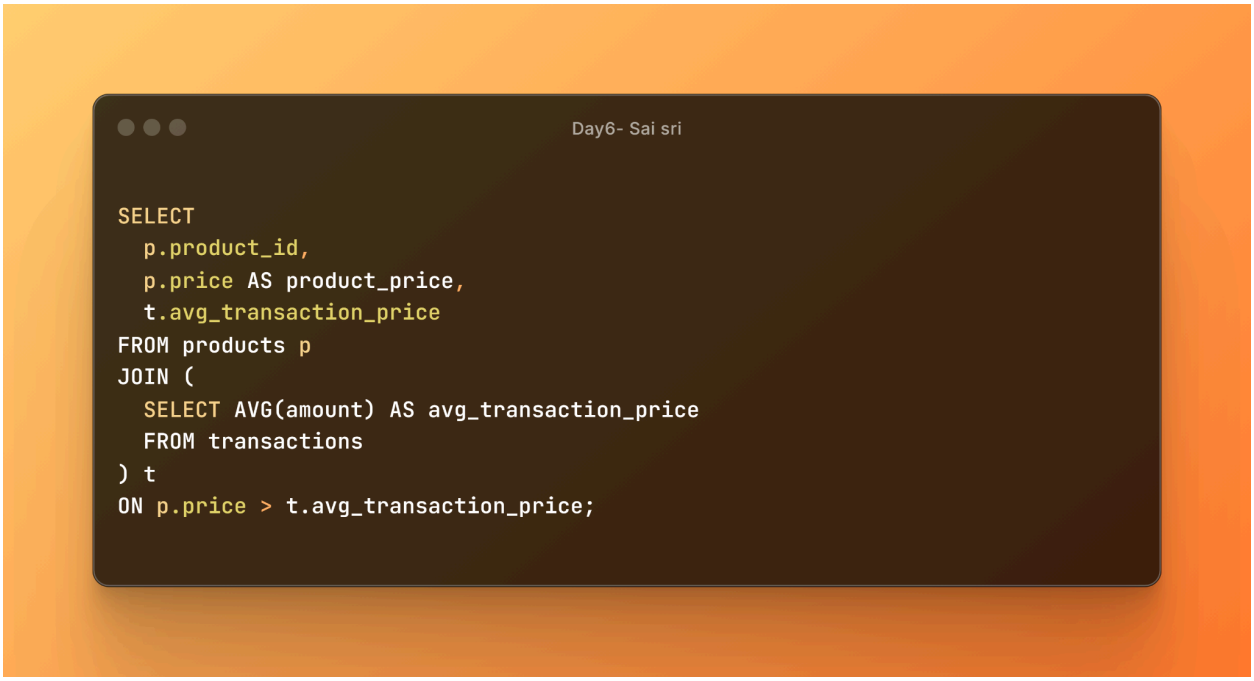
```sql
CREATE TABLE products (
product_id INT PRIMARY KEY,
price DECIMAL(10,2)
);

INSERT INTO products (product_id, price) VALUES
(1, 100.00),
(2, 150.00),
(3, 75.00),
(4, 200.00),
(5, 120.00);

CREATE TABLE transactions (
transaction_id INT PRIMARY KEY,
product_id INT,
amount DECIMAL(10,2),
FOREIGN KEY (product_id) REFERENCES products(product_id)
);

INSERT INTO transactions (transaction_id, product_id, amount) VALUES
(1, 1, 95.00),
(2, 1, 98.00),
(3, 2, 145.00),
(4, 2, 150.00),
(5, 3, 70.00),
(6, 4, 190.00),
(7, 4, 195.00),
(8, 5, 115.00);
```

SOLUTION



OUTPUT

▼ Tables

product_id	product_price	avg_transaction_price
2	150	132.25
4	200	132.25

My Thought Process:

I started by calculating the average transaction amount using a subquery (AVG(amount)).

Then I compared each product's price against this average using a simple JOIN, and filtered to include only those products where price > avg_transaction_price.