**SALES Dataset & Queries Output**

**Dataset Code**:

drop table if exists goldusers\_signup;

CREATE TABLE goldusers\_signup(user\_id integer,gold\_signup\_date date);

INSERT INTO goldusers\_signup(user\_id,gold\_signup\_date)

VALUES (1,'22-09-2017'),

(3,'21-04-2017');

drop table if exists users;

CREATE TABLE users(user\_id integer,signup\_date date);

INSERT INTO users(user\_id,signup\_date)

VALUES (1,'02-09-2014'),

(2,'15-01-2015'),

(3,'11-04-2014');

drop table if exists sales;

CREATE TABLE sales(user\_id integer,created\_date date,product\_id integer);

INSERT INTO sales(user\_id,created\_date,product\_id)

VALUES (1, '19-04-2017', 2),

(3,'18-12-2019', 1),

(2,'20-07-2020', 3),

(1,'23-10-2019', 2),

(1,'19-03-2018', 3),

(3,'20-12-2016', 2),

(1,'09-11-2016', 1),

(1,'20-05-2016', 3),

(2,'24-09-2017', 1),

(1,'11-03-2017', 2),

(1,'11-03-2016', 1),

(3,'10-11-2016', 1),

(3,'07-12-2017', 2),

(3,'15-12-2016', 2),

(2,'08-11-2017', 2),

(2,'10-09-2018', 3);

drop table if exists product;

CREATE TABLE product(product\_id integer,product\_name text,price integer);

INSERT INTO product(product\_id,product\_name,price)

VALUES

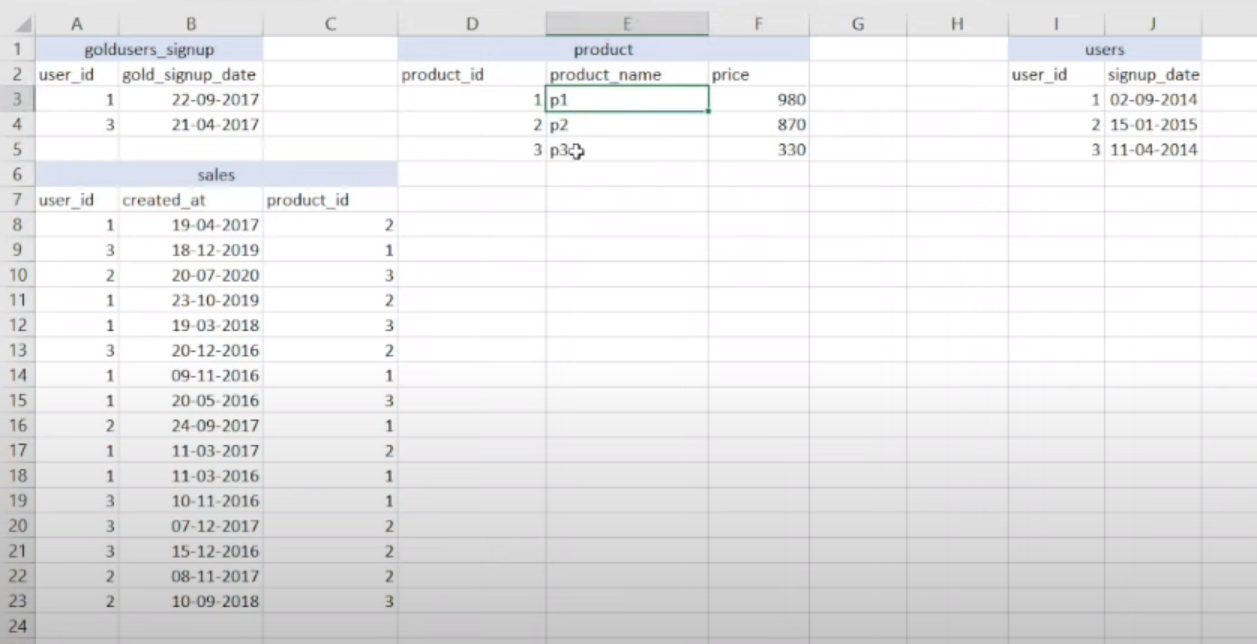
(1,'p1',980),

(2,'p2',870),

(3,'p3',330);

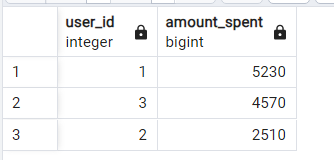
Note: - Since I am using PostgreSQL I have changed the date format from ‘MM-DD-YYYY’ to ‘DD-MM-YYYY’.

Here is the dataset:



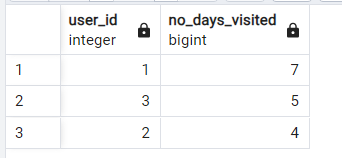
**Query 1**: **- What is the total amount each customer spent? Arrange in descending order of amount spent.**

Output:



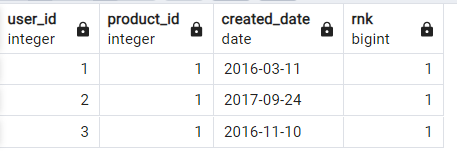
**Query 2: -** **How many days each customer visited the app?**

Output:



**Query 3: - What was the first product purchased by each customer?**

Output:

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**Query 4: - What is the most purchased item & how many times it was purchased by all customers?**

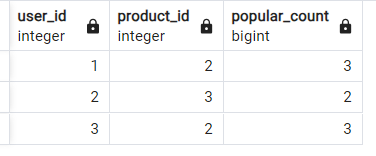
Output:

--- > from where clause



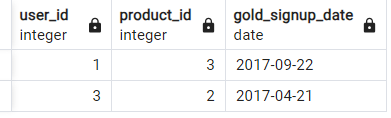
**Query 5: - Which product was the most popular for each customer?**

Output:



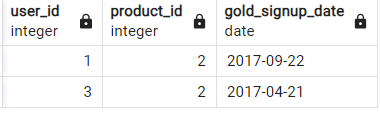
**Query 6: - Which product was first purchased by the customer after they became a member?**

Output:



**Query 7: - Which item was purchased just before the customer became the member?**

Output:



**Query 8: - What are the total orders and amount spent for each member before they became a member?**

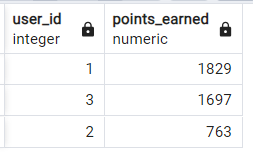
Output:



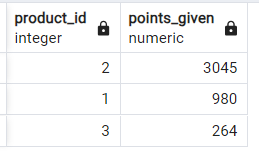
**Query 9: -** **Every product purchase generates points. p1->5rs=1pt, p2->10rs=5pt, p3->5rs=1pt. Calculate Points collected by each customer & for which products most pts have been given till now?**

Output:

1st part

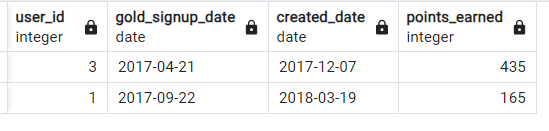


2nd part



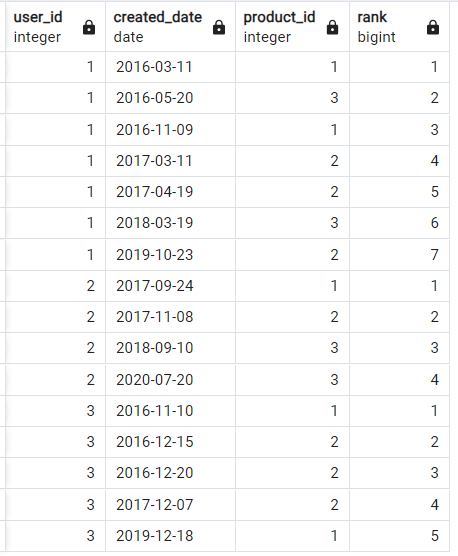
**Query 10: - In the first year after a customer joins gold program (including their joining date) irrespective of what the customer has purchased they earn 5 points for every 10rs spent. Who earned more 1 or 3 and what was their points earnings in the first year?**

Output:



**Query 11: - Rank all the transactions of the customers.**

Output:



**Query 12: - Rank the transactions of gold plan members & for non-gold plan members rank as ‘0’** Output:

