RKY Cohort 11.0 SQL Assignment – Queries with Results

Task 1: Agents' names and phone numbers
Query:

SELECT agent_name, phone_number
FROM agents;

Result:

agent_name	phone_number
Andrew	07635971237
Helena	07436432564
Rickey	07436437644
Melvin	07871432564
Kris	07436432564

Task 2: Customer names where working_area = 'Leeds'
Query:

SELECT cust_name
FROM customer
WHERE working_area = 'Leeds';

Result:

cust_name
Angelo
Claire

Task 3: Order number & amount where order_description = 'shoes'
Query:

SELECT order_num, order_amount
FROM orders
WHERE order_description = 'shoes';

Result:

No rows returned

Task 4: agent_code, order_amount, order_description where order_amount = 3000 AND order_description = 'clothes'
Query:

SELECT agent_code, order_amount, order_description
FROM orders
WHERE order_amount = 3000
  AND order_description = 'clothes';

Result:

No rows returned

Task 5: All columns from orders where order_amount > 2000
Query:

SELECT *
FROM orders
WHERE order_amount > 2000;

Result:

order_num	order_amount	advance_amount	order_date	cust_code	agent_code	order_description
2	3000	2000	2021-08-10	2	A01	shirt

Task 6: Customer name & phone where the name contains the letter 'e'
Query:

```
SELECT cust_name, phone_number
FROM customer
WHERE cust_name LIKE '%e%';
```

Result:

cust_name	phone_number
Pedro	07425686433
Werner	07135646752
Claire	071356467525

Task 7: Row(s) in orders with the minimum order_amount
Query:

```
SELECT *
FROM orders
WHERE order_amount = (SELECT MIN(order_amount) FROM orders);
```

Result:

order_num	order_amount	advance_amount	order_date	cust_code	agent_code	order_description
1	1000	500	2021-10-04	1	A04	shoe

Task 8: Total order amount from orders
Query:

```
SELECT SUM(order_amount) AS total_order_amount
FROM orders;
```

Result:

total_order_amount
4000

Task 9: Number of distinct agents that currently have orders (from orders)
Query:

SELECT COUNT(DISTINCT agent_code) AS agent_count_with_orders
FROM orders;

Result:

agent_count_with_orders

2

Task 10: Highest purchase (order) amount per customer and overall highest
Query:

Per-customer max
SELECT cust_code, MAX(order_amount) AS max_order_amount
FROM orders
GROUP BY cust_code;

Overall max
SELECT MAX(order_amount) AS highest_order_amount
FROM orders;

Result:

cust_code	max_order_amount
1	1000
2	3000
Overall highest	3000

Task 11: Highest order amount on '2022-07-13' with agent_code (from orders)
Query:

SELECT TOP 1 agent_code, order_amount
FROM orders
WHERE order_date = '2022-07-13'
ORDER BY order_amount DESC;

Result:

No rows returned

Task 12: Names & customer city where customers and their agents work in the same city
Query:

SELECT c.cust_name, c.cust_city
FROM customer AS c
JOIN agents AS a ON a.agent_code = c.agent_code
WHERE c.working_area = a.working_area;

Result:

No rows returned

Task 13: All customer names with the agent names who work for them
Query:

SELECT c.cust_name, a.agent_name
FROM customer AS c
JOIN agents AS a ON a.agent_code = c.agent_code
ORDER BY c.cust_name;

Result:

cust_name	agent_name
Angelo	Kris
Claire	Kris
Curt	Helena
Pedro	Melvin
Werner	Andrew

Task 14: Orders where the customer is not located in the same city as the agent's working area
Query:

SELECT o.order_num, o.order_amount, o.order_date, o.order_description,
      c.cust_name, c.cust_city, a.agent_name, a.working_area
FROM orders AS o
JOIN customer AS c ON c.cust_code = o.cust_code
JOIN agents   AS a ON a.agent_code = o.agent_code
WHERE c.cust_city <> a.working_area;

Result:

order_num	order_amount	order_date	order_description	cust_name	cust_city	agent_name	working_area
1	1000	2021-10-04	shoe	Pedro	York	Melvin	Birmingham
2	3000	2021-08-10	shirt	Curt	Wales	Andrew	London

Task 15: All orders issued by agent 'Rickey' (from orders)
Query:

SELECT *
FROM orders
WHERE agent_code = (
  SELECT agent_code FROM agents WHERE agent_name = 'Rickey'
);

Result:

No rows returned