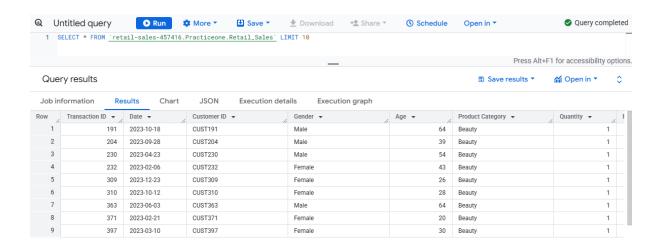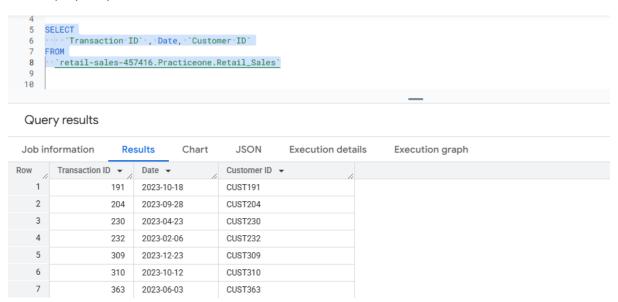Practice 1 |22/04/2025

Q1. Display all columns for all transactions.

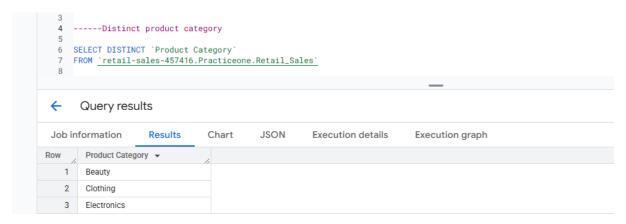Q2. Display only the Transaction ID, Date, and Customer ID for all records.
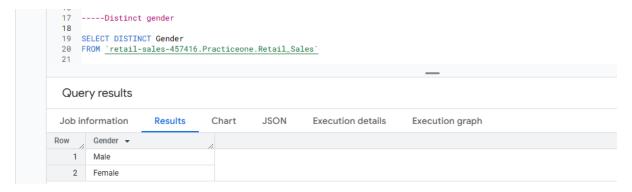
SELECT DISTINCT

Statement Q3. Display all the distinct product categories in the dataset. Expected output:
Product Category

```
3
4    ------Distinct product category
5
6    SELECT DISTINCT `Product Category`
7    FROM `retail-sales-457416.Practiceone.Retail_Sales`
8
```

← Query results

| Job information | **Results** | Chart | JSON | Execution details | Execution graph |

Row	Product Category ▾
1	Beauty
2	Clothing
3	Electronics

Q4. Display all the distinct gender values in the dataset. Expected output: Gender

```
17   -----Distinct gender
18
19   SELECT DISTINCT Gender
20   FROM `retail-sales-457416.Practiceone.Retail_Sales`
21
```

Query results

| Job information | **Results** | Chart | JSON | Execution details | Execution graph |

Row	Gender ▾
1	Male
2	Female

WHERE STATEMENT

Q5. Display all transactions where the Age is greater than 40. Expected output: All columns

```
23
24   SELECT *
25   FROM `retail-sales-457416.Practiceone.Retail_Sales`
26   WHERE Age > 40
```

Press Alt+F1 for accessi

Query results   🖫 Save results ▾   📈 Open in

| Job information | **Results** | Chart | JSON | Execution details | Execution graph |

Row	Transaction ID ▾	Date ▾	Customer ID ▾	Gender ▾	Age ▾	Product Category ▾	Quantity ▾	Price per Unit ▾	Total Amount ▾
1	191	2023-10-18	CUST191	Male	64	Beauty	1	25	25
2	230	2023-04-23	CUST230	Male	54	Beauty	1	25	25
3	232	2023-02-06	CUST232	Female	43	Beauty	1	25	25
4	363	2023-06-03	CUST363	Male	64	Beauty	1	25	25
5	454	2023-02-22	CUST454	Female	46	Beauty	1	25	25
6	512	2023-11-07	CUST512	Female	57	Beauty	1	25	25

Q6. Display all transactions where the Price per Unit is between 100 and 500. Expected output: All columns

```
30  SELECT *
31  FROM
32     `retail-sales-457416.Practiceone.Retail_Sales`
33  WHERE  `Price per Unit` BETWEEN 100 AND 500
```
Press Alt+F1 for accessibility options

Query results   Save results ▾   Open in ▾   ↕

Job information   **Results**   Chart   JSON   Execution details   Execution graph

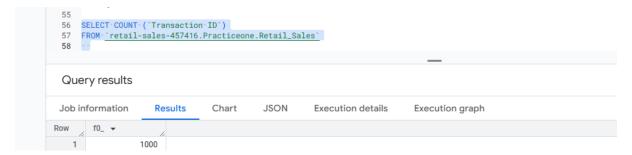| Row	Transaction ID ▾	Date ▾	Customer ID ▾	Gender ▾	Age ▾	Product Category ▾	Quantity ▾	Price per Unit ▾	Total Amount ▾
1	52	2023-03-05	CUST052	Female	36	Beauty	1	300	300
2	79	2023-04-18	CUST079	Male	34	Beauty	1	300	300
3	174	2023-04-12	CUST174	Female	39	Beauty	1	300	300
4	240	2023-02-06	CUST240	Female	23	Beauty	1	300	300
5	358	2023-05-16	CUST358	Female	32	Beauty	1	300	300
6	378	2023-06-28	CUST378	Male	50	Beauty	1	300	300
7	555	2023-10-19	CUST555	Male	25	Beauty	1	300	300

Q7. Display all transactions where the Product Category is either 'Beauty' or 'Electronics'. Expected output: All columns

Q8. Display all transactions where the Product Category is not 'Clothing'. Expected output: All columns
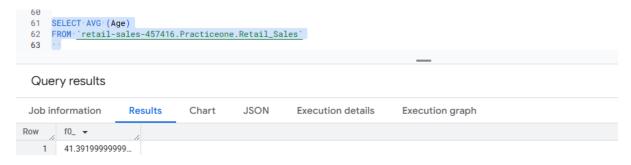
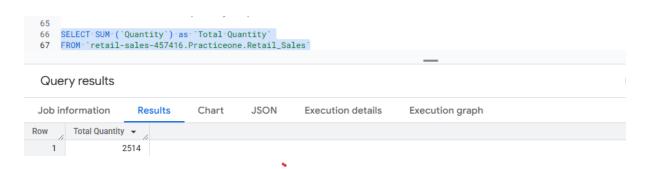Q9. Display all transactions where the Quantity is greater than or equal to 3.

```
49
50  SELECT *
51  FROM `retail-sales-457416.Practiceone.Retail_Sales`
52  WHERE `Quantity` >= 3
```
Press Alt+F1 for accessibility options.

Query results   Save results ▾   Open in ▾   ↕

Job information   **Results**   Chart   JSON   Execution details   Execution graph

Row	Transaction ID ▾	Date ▾	Customer ID ▾	Gender ▾	Age ▾	Product Category ▾	Quantity ▾
1	12	2023-10-30	CUST012	Male	35	Beauty	3
2	37	2023-05-23	CUST037	Female	18	Beauty	3
3	50	2023-08-24	CUST050	Female	27	Beauty	3
4	51	2023-10-02	CUST051	Male	27	Beauty	3
5	69	2023-04-30	CUST069	Female	56	Beauty	3
6	108	2023-04-19	CUST108	Female	27	Beauty	3
7	350	2023-10-17	CUST350	Male	25	Beauty	3
8	374	2023-04-20	CUST374	Female	59	Beauty	3

Q10. Count the total number of transactions.

```
55
56  SELECT COUNT (`Transaction ID`)
57  FROM `retail-sales-457416.Practiceone.Retail_Sales`
58  ;
```

Query results

| Job information | Results | Chart | JSON | Execution details | Execution graph |

Row	f0_ ▾
1	1000

Q11. Find the average Age of customers.

```
60
61  SELECT AVG (Age)
62  FROM `retail-sales-457416.Practiceone.Retail_Sales`
63  ;
```

Query results

| Job information | Results | Chart | JSON | Execution details | Execution graph |

Row	f0_ ▾
1	41.39199999999…

Q12. Find the total quantity of products sold.

```
65
66  SELECT SUM (`Quantity`) as `Total Quantity`
67  FROM `retail-sales-457416.Practiceone.Retail_Sales`
```

Query results

| Job information | Results | Chart | JSON | Execution details | Execution graph |

Row	Total Quantity ▾
1	2514

Q13. Find the maximum Total Amount spent in a single transaction.

```
70
71  SELECT MAX (`Total Amount`) as `Max TotalAmount`
72  FROM `retail-sales-457416.Practiceone.Retail_Sales`
```

Query results

| Job information | Results | Chart | JSON | Execution details | Execution graph |

Row	Max TotalAmount ▾
1	2000

Q14. Find the minimum Price per Unit in the dataset.

```
7
8  SELECT
9    `Transaction ID` , Date, `Customer ID`
10 FROM
11   `retail-sales-457416.Practiceone.Retail_Sales`
12
```

Query results

Job information	Results	Chart	JSON	Execution details	Execution

Row	f0_ ▼	
1	25	

Q15. Find the number of transactions per Product Category.

```
32
33  ---Q15. Find the number of transactions per Product Category.
34
35 ∨SELECT COUNT (`Transaction ID`) as `Transaction Count`,
36          `Product Category`
37 FROM `retail-sales-457416.Practiceone.Retail_Sales`
38 GROUP BY `Product Category`
```

Query results

Job information	Results	Chart	JSON	Execution details	Execution

Row	Transaction Count	Product Category ▼	
1	307	Beauty	
2	351	Clothing	
3	342	Electronics	

Q16. Find the total revenue (Total Amount) per gender.

```
40    ---Q16. Find the total revenue (Total Amount) per gender.
41
42    SELECT SUM (`Total Amount`) AS `Total Revenue`,
43              `Gender`
44    FROM `retail-sales-457416.Practiceone.Retail_Sales`
45    GROUP BY `Gender`
46
```

Query results

| Job information | Results | Chart | JSON | Execution details | Execution |

Row	Total Revenue ▼	Gender ▼
1	223160	Male
2	232840	Female

Q17. Find the average Price per Unit per product category.

```
47    ----Q17. Find the average Price per Unit per product category.
48
49    SELECT  AVG (`Price per Unit`) AS `Avereage Price`,
50              `Product Category`,
51    FROM `retail-sales-457416.Practiceone.Retail_Sales`
52    GROUP BY `Product Category`
53
```

Query results

| Job information | Results | Chart | JSON | Execution details | Execution |

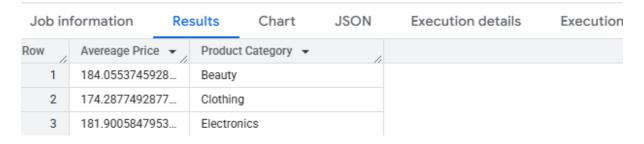| Row	Avereage Price ▼	Product Category ▼
1	184.0553745928…	Beauty
2	174.2877492877…	Clothing
3	181.9005847953…	Electronics

Q18. Find the total revenue per product category where total revenue is greater than 10,000.