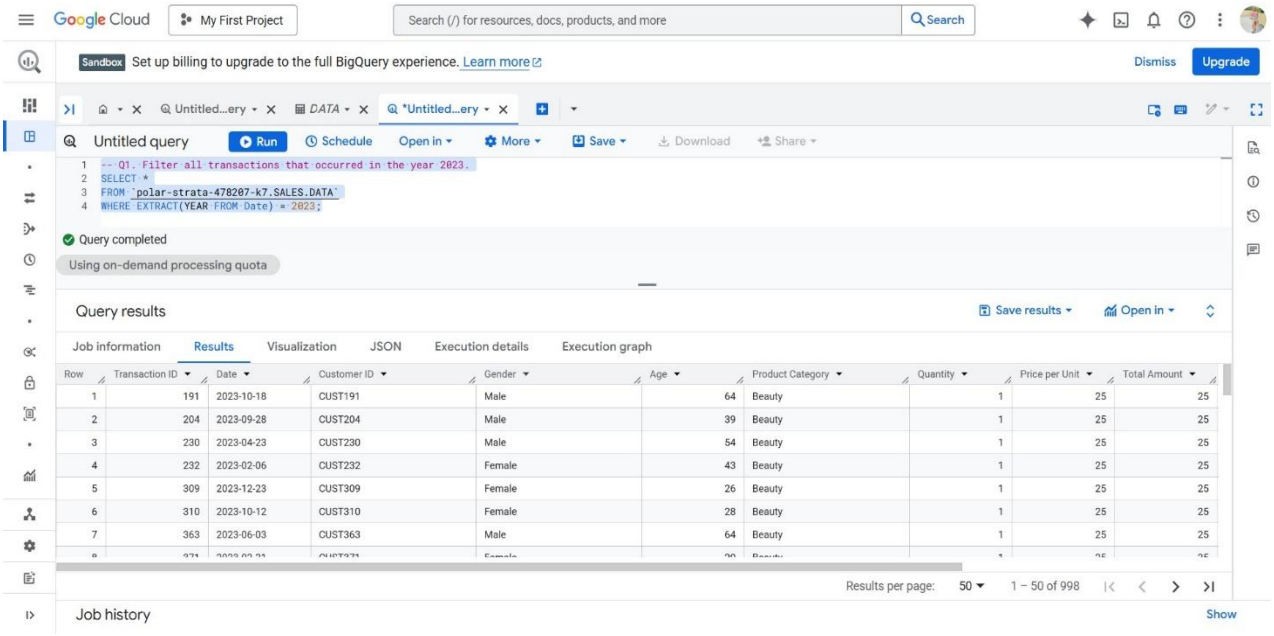
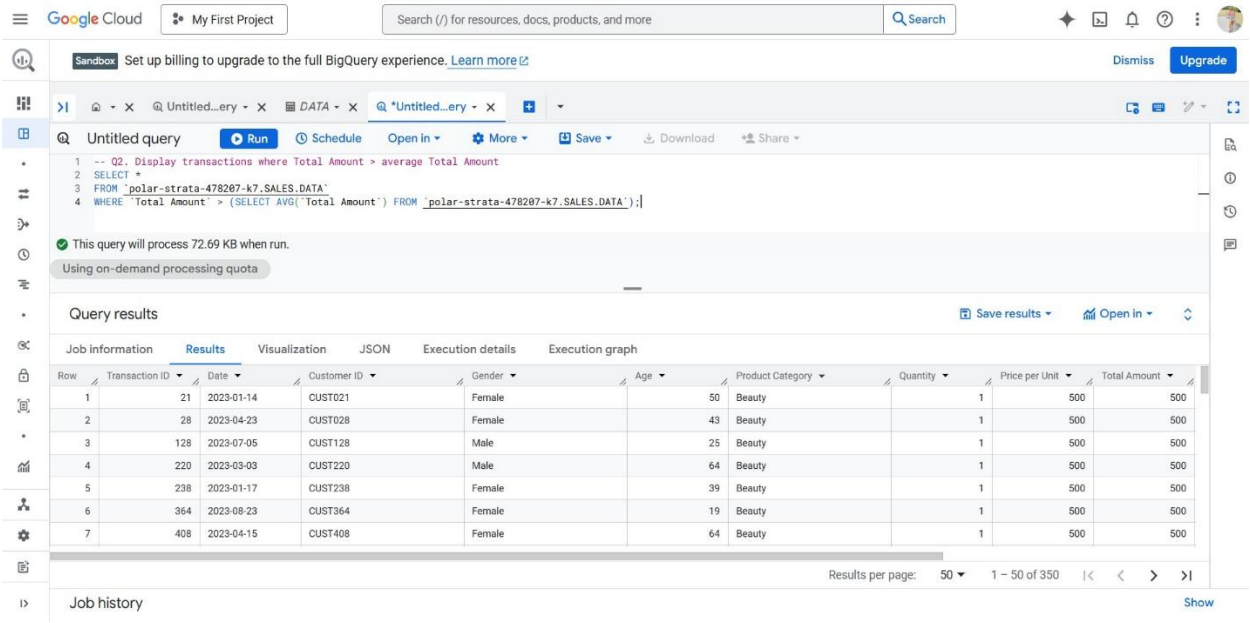
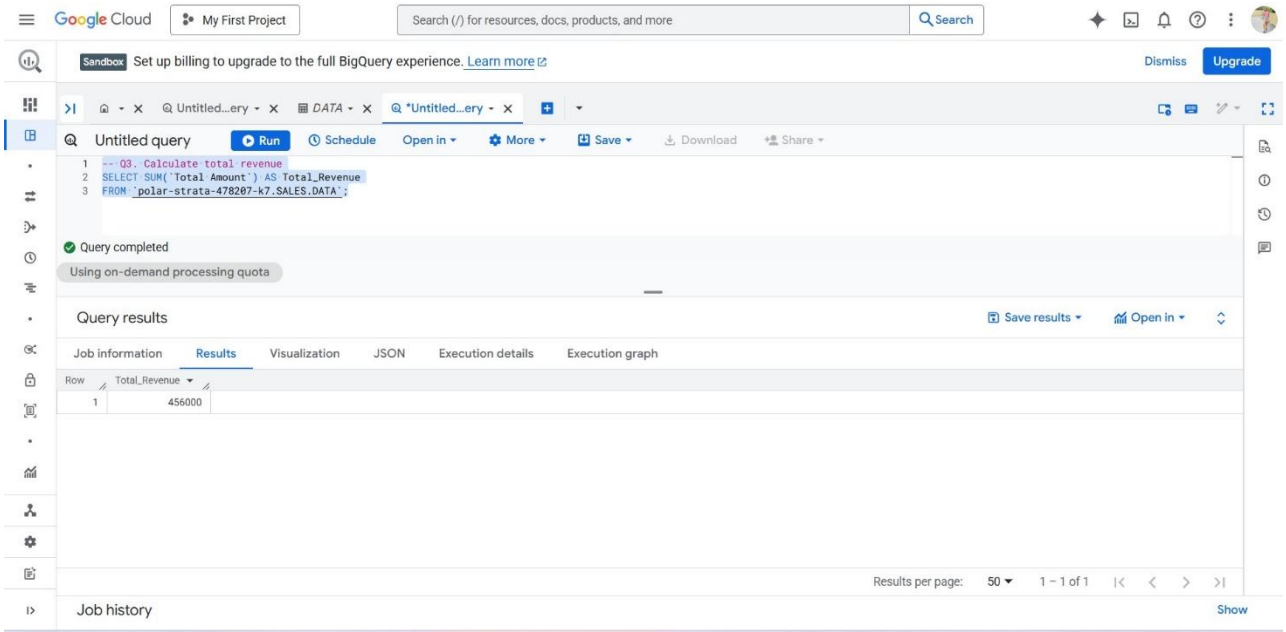
BRIGHTLEARN Practical exercise (Google BigQuery)

Dataset: Retail Sales Dataset



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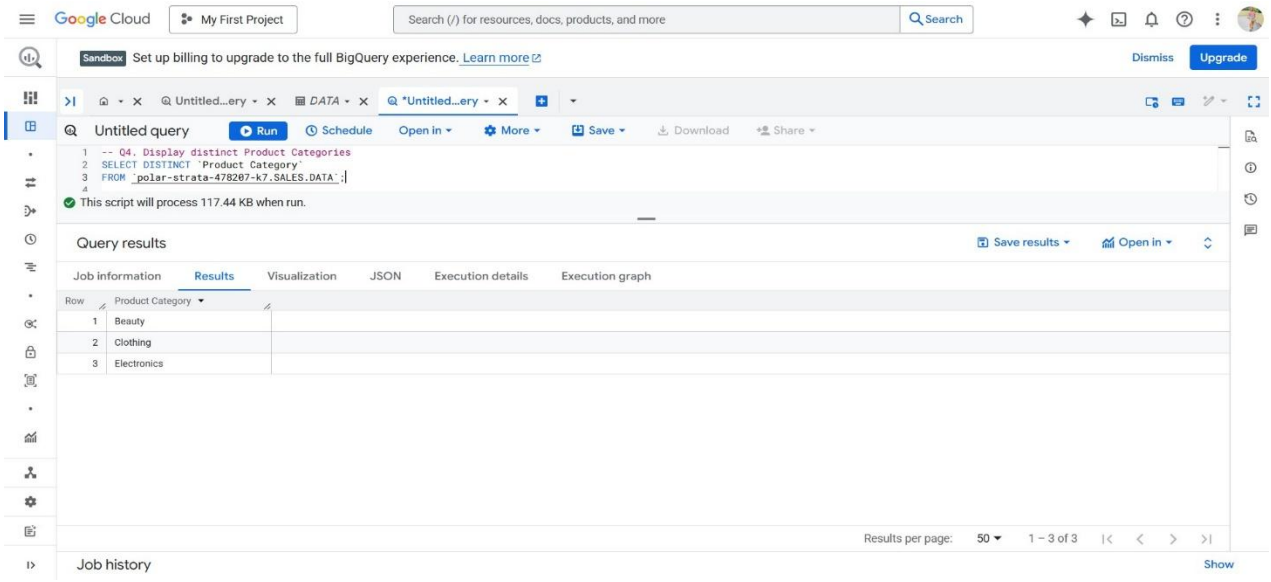
-- Q3. Calculate total revenue
SELECT SUM(`Total Amount`) AS Total_Revenue
FROM `polar-strata-478207-k7.SALES.DATA`;
Query completed
Using on-demand processing quota
Query results
Save results
Open in
Job information
Results
Visualization
JSON
Execution details
Execution graph
Row
Total_Revenue
1
456000
Results per page:
50
1 – 1 of 1
Job history
Show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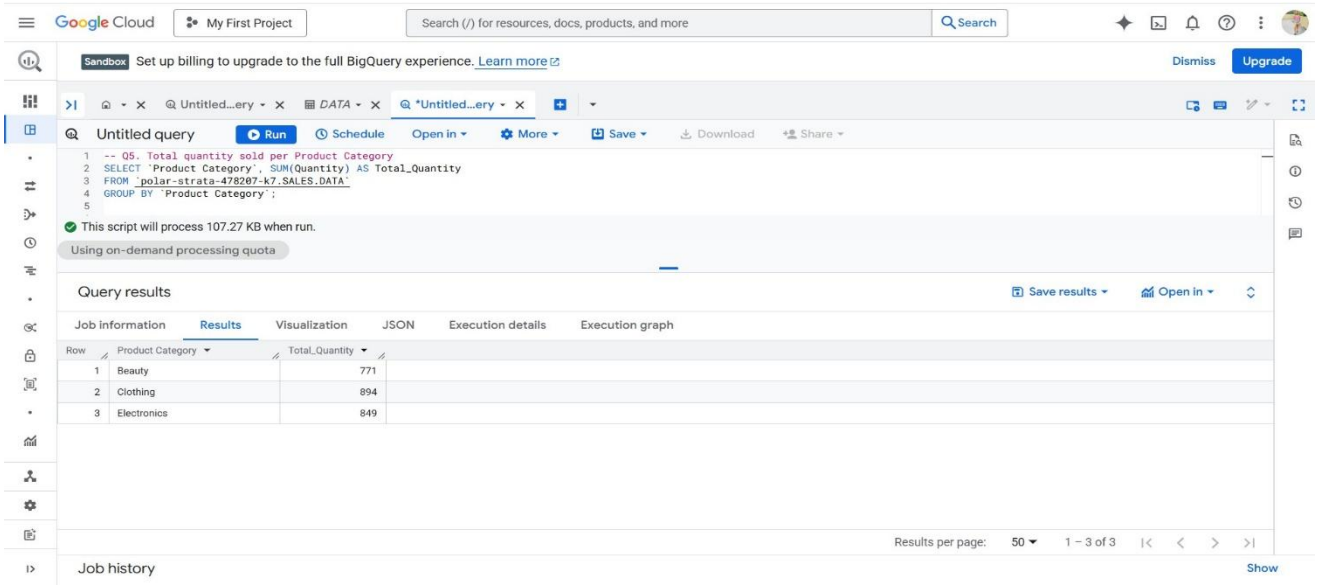
-- Q4. Display distinct Product Categories
SELECT DISTINCT `Product Category`
FROM `polar-strata-478207-k7.SALES.DATA`;
This script will process 117.44 KB when run.
Query results
Save results
Open in
Job information
Results
Visualization
JSON
Execution details
Execution graph
Row
Product Category
1
Beauty
2
Clothing
3
Electronics
Results per page:
50
1 – 3 of 3
Job history
Show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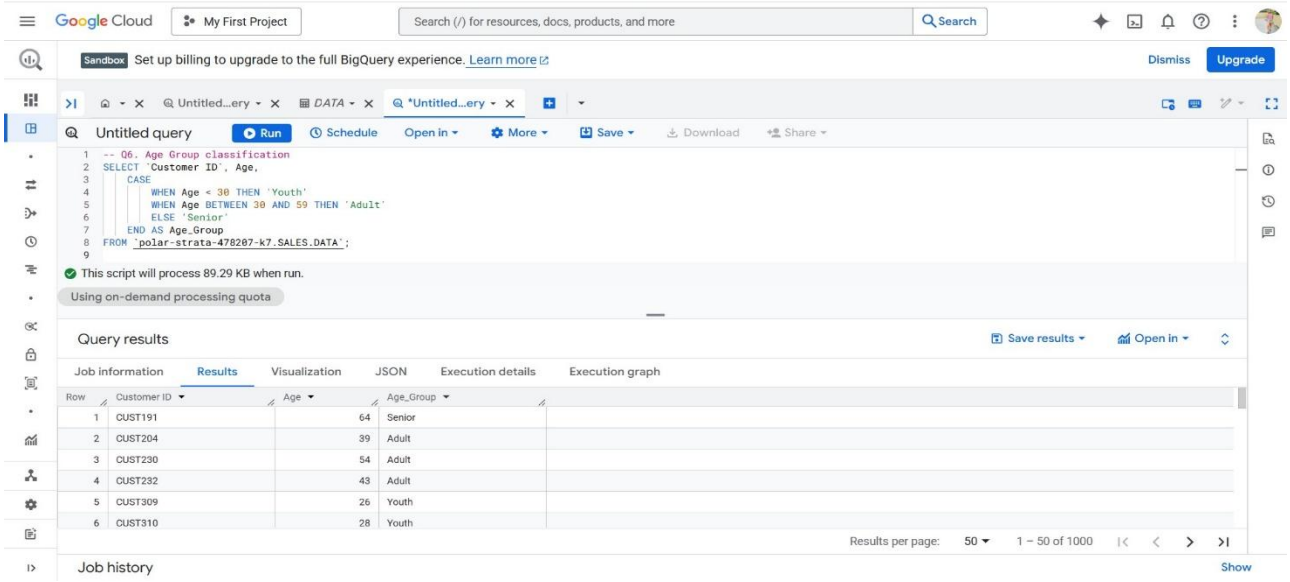
-- Q5. Total quantity sold per Product Category
SELECT `Product Category`, SUM(Quantity) AS Total_Quantity
FROM `polar-strata-478207-k7.SALES.DATA`
GROUP BY `Product Category`;
This script will process 107.27 KB when run.
Using on-demand processing quota
Query results
Save results
Open in
Job information
Results
Visualization
JSON
Execution details
Execution graph
Row
Product Category
Total_Quantity
1 Beauty 771
2 Clothing 894
3 Electronics 849
Results per page: 50
1 – 3 of 3
Job history
Show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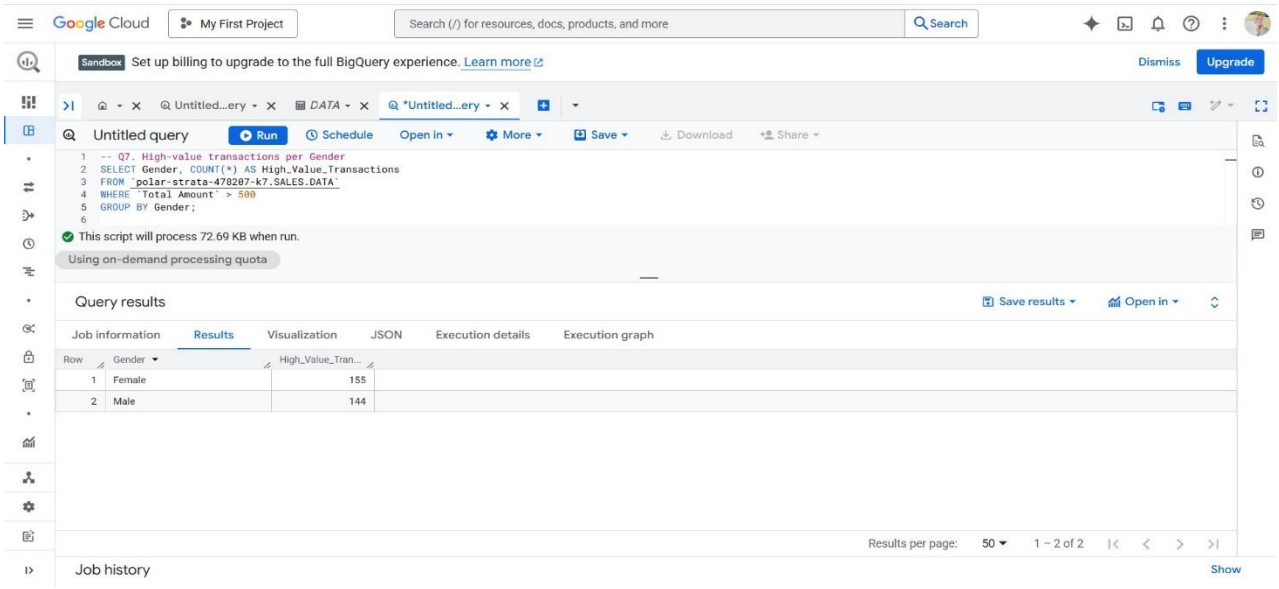
-- Q6. Age Group classification
SELECT `Customer ID`, Age,
CASE
WHEN Age < 30 THEN 'Youth'
WHEN Age BETWEEN 30 AND 59 THEN 'Adult'
ELSE 'Senior'
END AS Age_Group
FROM `polar-strata-478207-k7.SALES.DATA`;
This script will process 89.29 KB when run.
Using on-demand processing quota
Query results
Save results
Open in
Job information
Results
Visualization
JSON
Execution details
Execution graph
Row
Customer ID
Age
Age_Group
1 CUST191 64 Senior
2 CUST204 39 Adult
3 CUST230 54 Adult
4 CUST232 43 Adult
5 CUST309 26 Youth
6 CUST310 28 Youth
Results per page: 50
1 – 50 of 1000
Job history
Show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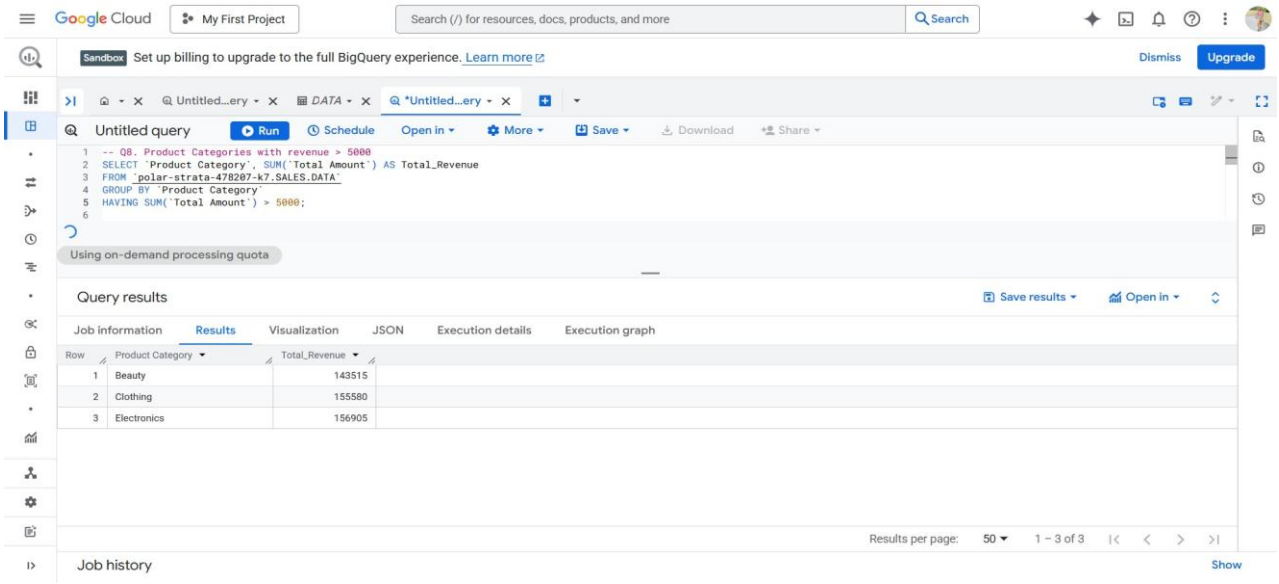
-- Q7. High-value transactions per Gender
SELECT Gender, COUNT(*) AS High_Value_Transactions
FROM `polar-strata-478207-k7.SALES.DATA`
WHERE `Total Amount` > 500
GROUP BY Gender;
This script will process 72.69 KB when run.
Using on-demand processing quota
Query results
Save results
Open in
Job information
Results
Visualization
JSON
Execution details
Execution graph
Row
Gender
High_Value_Tran...
1
Female
155
2
Male
144
Results per page:
50
1 – 2 of 2
Job history
Show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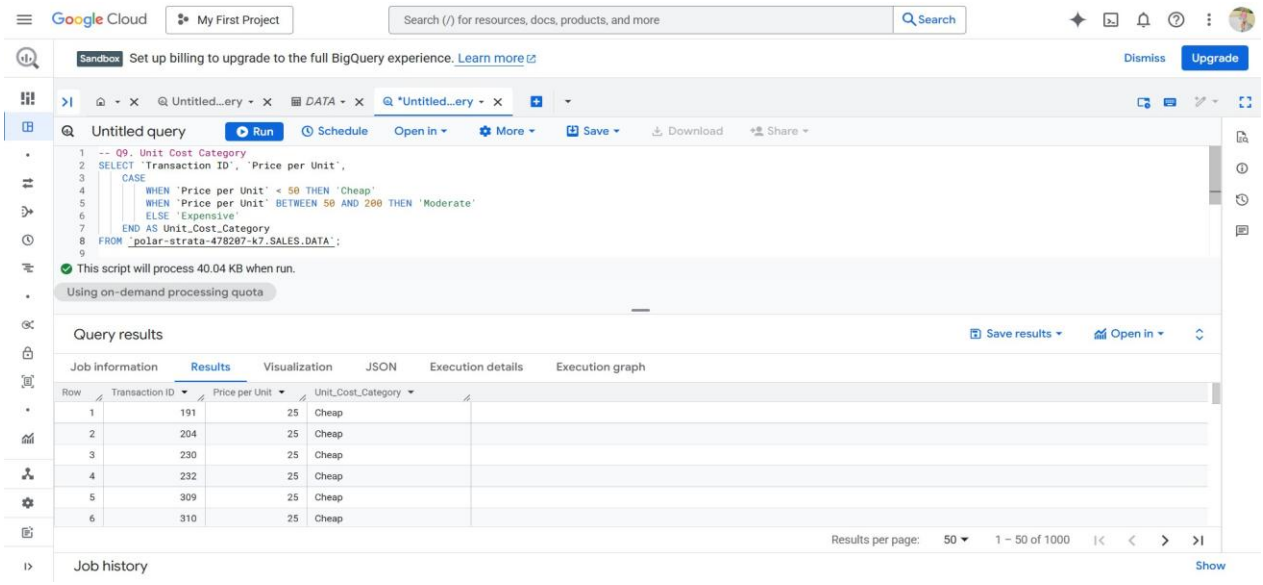
-- Q8. Product Categories with revenue > 5000
SELECT `Product Category`, SUM(`Total Amount`) AS Total_Revenue
FROM `polar-strata-478207-k7.SALES.DATA`
GROUP BY `Product Category`
HAVING SUM(`Total Amount`) > 5000;
Using on-demand processing quota
Query results
Save results
Open in
Job information
Results
Visualization
JSON
Execution details
Execution graph
Row
Product Category
Total_Revenue
1
Beauty
143515
2
Clothing
155580
3
Electronics
156905
Results per page:
50
1 – 3 of 3
Job history
Show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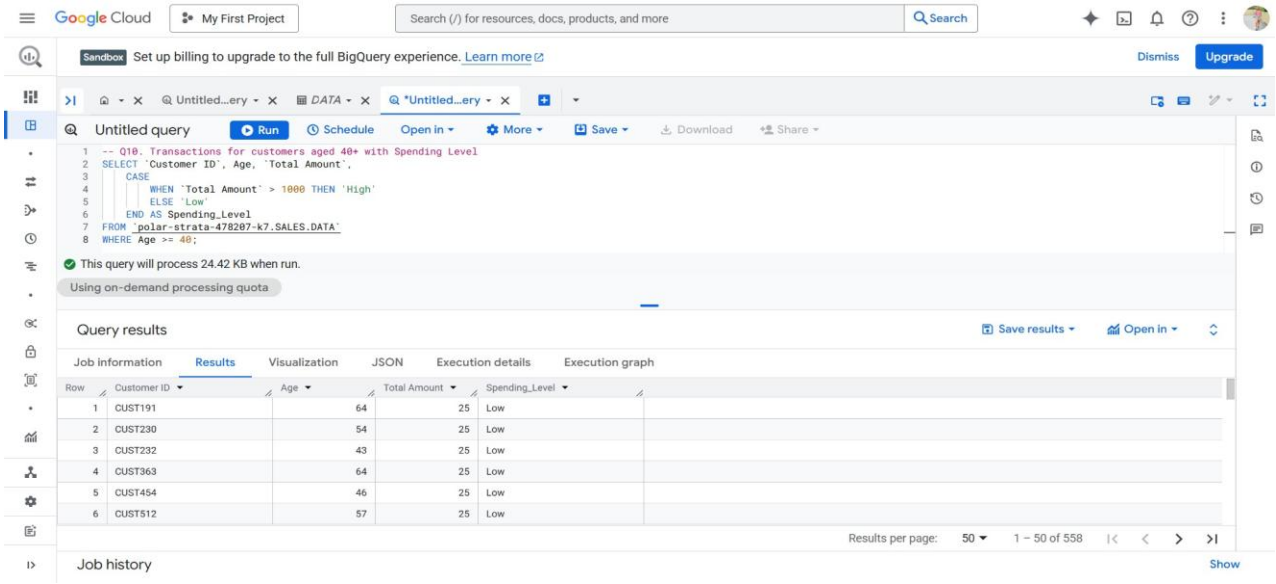
-- Q9. Unit Cost Category
SELECT `Transaction ID`, `Price per Unit`,
CASE
WHEN `Price per Unit` < 50 THEN 'Cheap'
WHEN `Price per Unit` BETWEEN 50 AND 200 THEN 'Moderate'
ELSE 'Expensive'
END AS Unit_Cost_Category
FROM `polar-strata-478207-k7.SALES.DATA`;
This script will process 40.04 KB when run.
Using on-demand processing quota
Query results
Save results
Open in
Job information
Results
Visualization
JSON
Execution details
Execution graph
Row
Transaction ID
Price per Unit
Unit_Cost_Category
1 191 25 Cheap
2 204 25 Cheap
3 230 25 Cheap
4 232 25 Cheap
5 309 25 Cheap
6 310 25 Cheap
Results per page: 50
1 – 50 of 1000
Job history
Show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Schedule
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-- Q10. Transactions for customers aged 40+ with Spending Level
SELECT `Customer ID`, Age, `Total Amount`,
CASE
WHEN `Total Amount` > 1000 THEN 'High'
ELSE 'Low'
END AS Spending_Level
FROM `polar-strata-478207-k7.SALES.DATA`
WHERE Age >= 40;
This query will process 24.42 KB when run.
Using on-demand processing quota
Query results
Save results
Open in
Job information
Results
Visualization
JSON
Execution details
Execution graph
Row
Customer ID
Age
Total Amount
Spending_Level
1 CUST191 64 25 Low
2 CUST230 54 25 Low
3 CUST232 43 25 Low
4 CUST363 64 25 Low
5 CUST454 46 25 Low
6 CUST512 57 25 Low
Results per page: 50
1 – 50 of 558
Job history
Show