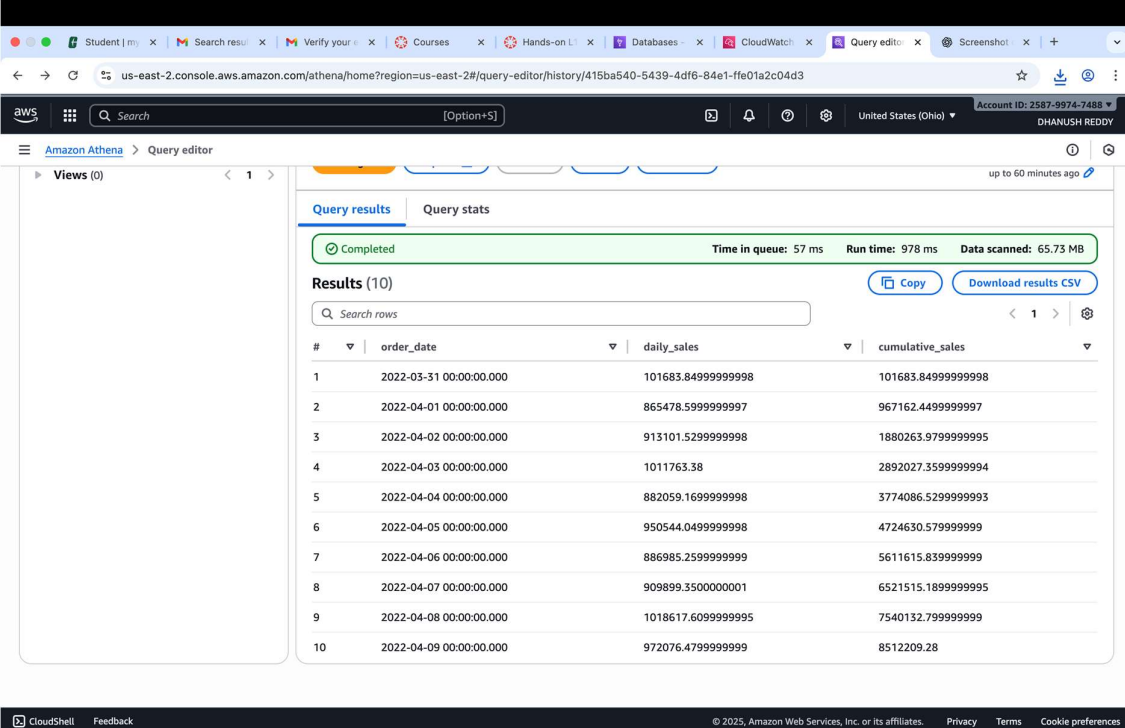


SQL QUERY SCRIPT

QUERY-1

```
SELECT
    order_date,
    daily_sales,
    SUM(daily_sales) OVER (ORDER BY order_date
                           ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW) AS
cumulative_sales
FROM (
    SELECT
        date_trunc('day', date_parse("date", '%m-%d-%y')) AS order_date,
        SUM(amount) AS daily_sales
    FROM bossman_output.raw
    WHERE extract(year FROM date_parse("date", '%m-%d-%y')) = 2022
    GROUP BY 1
    ORDER BY 1
) t
LIMIT 10;
```



The screenshot shows the Amazon Athena Query Editor interface. The query is completed, and the results are displayed in a table with 10 rows. The table has four columns: #, order_date, daily_sales, and cumulative_sales. The cumulative_sales column shows the running total of daily_sales for each date.

#	order_date	daily_sales	cumulative_sales
1	2022-03-31 00:00:00.000	101683.84999999998	101683.84999999998
2	2022-04-01 00:00:00.000	865478.5999999997	967162.4499999997
3	2022-04-02 00:00:00.000	913101.5299999998	1880263.9799999995
4	2022-04-03 00:00:00.000	1011763.38	2892027.3599999994
5	2022-04-04 00:00:00.000	882059.1699999998	3774086.5299999993
6	2022-04-05 00:00:00.000	950544.0499999998	4724630.579999999
7	2022-04-06 00:00:00.000	886985.2599999999	5611615.839999999
8	2022-04-07 00:00:00.000	909899.3500000001	6521515.1899999995
9	2022-04-08 00:00:00.000	1018617.6099999995	7540132.799999999
10	2022-04-09 00:00:00.000	972076.4799999999	8512209.28

QUERY-2

```
SELECT
  "ship-city",
  SUM(amount) AS total_sales,
  RANK() OVER (ORDER BY SUM(amount) DESC) AS sales_rank
FROM bossman_output.raw
GROUP BY "ship-city"
ORDER BY total_sales DESC
LIMIT 10;
```

us-east-2.console.aws.amazon.com/athena/home?region=us-east-2#query-editor/history/418ab9cf-799c-49b0-8718-b05bf14e77e0

aws

Search

[Option+S]

United States (Ohio)

Account ID: 2587-9974-7458

DHANUSH REDDY

Amazon Athena

Query editor

Views (0)

Query results

Query stats

Completed

Time in queue: 108 ms

Run time: 793 ms

Data scanned: 65.73 MB

Results (10)

Copy

Download results CSV

Search rows

#	ship-city	total_sales	sales_rank
1	BENGALURU	6849664.989999999	1
2	HYDERABAD	4946032.819999999	2
3	MUMBAI	3704461.8000000007	3
4	NEW DELHI	3613874.7799999993	4
5	CHENNAI	3098745.74	5
6	PUNE	2338518.1799999997	6
7	KOLKATA	1414978.87	7
8	GURUGRAM	1221618.74	8
9	THANE	1004355.29	9
10	LUCKNOW	933926.3400000001	10

CloudShell

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QUERY-3

SELECT

style AS sub_category,

discount_bucket,

SUM(amount) AS total_profit,

SUM(amount) AS total_sales,

SUM(amount) / NULLIF(SUM(amount),0) AS profit_ratio

FROM (

SELECT

style,

amount,

CASE

WHEN 0 = 0 THEN '0%' -- replace with discount column if exists

ELSE '>0%'

END AS discount_bucket

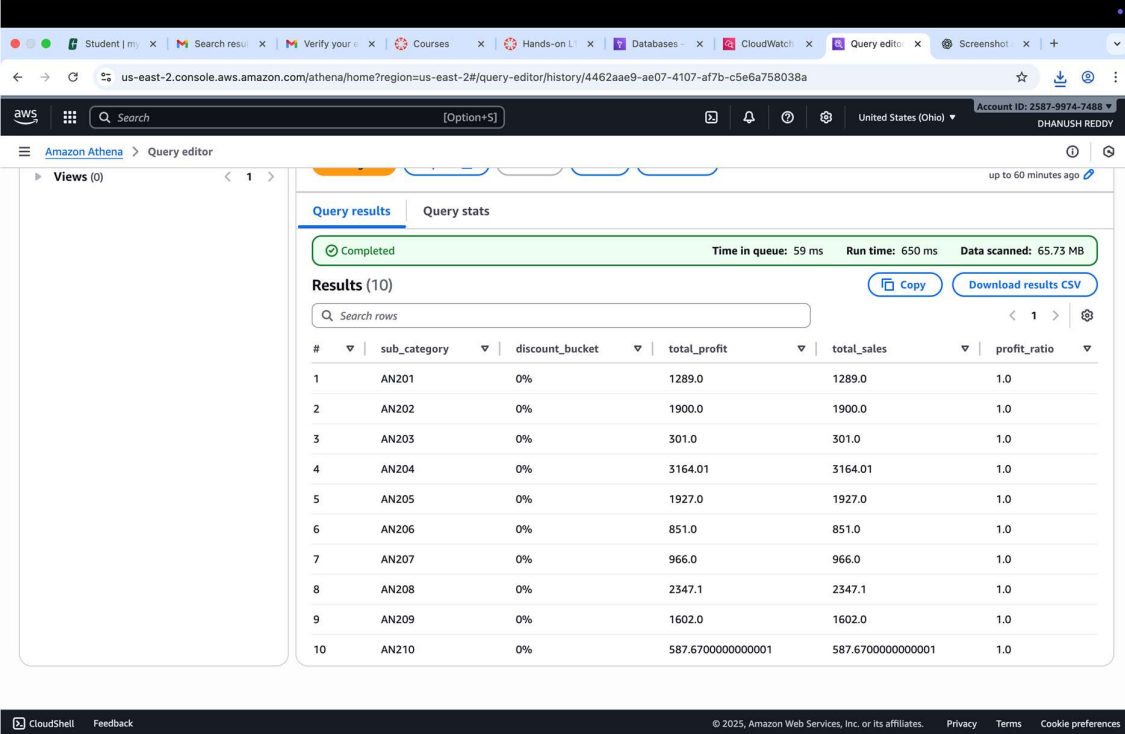
FROM bossman_output.raw

) t

GROUP BY style, discount_bucket

ORDER BY style, discount_bucket

LIMIT 10;



The screenshot shows the Amazon Athena Query Editor interface. The query is displayed in the editor, and the results are shown in a table. The table has 10 rows and 5 columns: sub_category, discount_bucket, total_profit, total_sales, and profit_ratio. The results show various sub-categories and their corresponding profit and sales data.

#	sub_category	discount_bucket	total_profit	total_sales	profit_ratio
1	AN201	0%	1289.0	1289.0	1.0
2	AN202	0%	1900.0	1900.0	1.0
3	AN203	0%	301.0	301.0	1.0
4	AN204	0%	3164.01	3164.01	1.0
5	AN205	0%	1927.0	1927.0	1.0
6	AN206	0%	851.0	851.0	1.0
7	AN207	0%	966.0	966.0	1.0
8	AN208	0%	2347.1	2347.1	1.0
9	AN209	0%	1602.0	1602.0	1.0
10	AN210	0%	587.6700000000001	587.6700000000001	1.0

QUERY-4

```
WITH product_profit AS (  
    SELECT  
        category,  
        sku AS product_id,  
        style AS product_name,  
        SUM(amount) AS total_profit  
    FROM bossman_output.raw  
    GROUP BY category, sku, style  
)  
ranked AS (  
    SELECT  
        category,  
        product_id,  
        product_name,  
        total_profit,  
        ROW_NUMBER() OVER (PARTITION BY category ORDER BY total_profit DESC) AS rn  
    FROM product_profit  
)  
SELECT  
    category,  
    product_id,  
    product_name,  
    total_profit,  
    rn  
FROM ranked  
WHERE rn <= 3  
ORDER BY category, total_profit DESC  
LIMIT 10;
```

us-east-2.console.aws.amazon.com/athena/home?region=us-east-2#query-editor/history/c2699059-b8b0-4cbd-a90a-0ddcf7d051e3

Amazon Athena Query editor

Views (0)

Query results Query stats

Completed Time in queue: 58 ms Run time: 746 ms Data scanned: 65.73 MB

Results (10) [Copy](#) [Download results CSV](#)

Search rows

#	category	product_id	product_name	total_profit	m
1	Blouse	J0217-BL-M	J0217	24288.9	1
2	Blouse	J0217-BL-L	J0217	20908.33	2
3	Blouse	J0217-BL-S	J0217	20670.989999999998	3
4	Bottom	BTM038-PP-S	BTM038	2989.9	1
5	Bottom	BTM039-PP-XXXL	BTM039	2862.86	2
6	Bottom	BTM039-PP-M	BTM039	2828.58	3
7	Dupatta	DPT041	DPT041	305.0	2
8	Dupatta	DPT032	DPT032	305.0	3
9	Dupatta	DPT052	DPT052	305.0	1
10	Ethnic Dress	J0006-SET-M	J0006	73072.95000000001	1

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QUERY-5

WITH monthly AS (

SELECT

date_format(date_trunc('month', date_parse("date", '%m-%d-%y')), '%Y-%m') AS

year_month,

SUM(amount) AS total_sales,

SUM(amount) AS total_profit

FROM bossman_output.raw

GROUP BY 1

)

SELECT

year_month,

total_sales,

total_profit,

(total_sales - LAG(total_sales) OVER (ORDER BY year_month))

/ NULLIF(LAG(total_sales) OVER (ORDER BY year_month),0) AS sales_mom_growth,

(total_profit - LAG(total_profit) OVER (ORDER BY year_month))

/ NULLIF(LAG(total_profit) OVER (ORDER BY year_month),0) AS profit_mom_growth

FROM monthly

ORDER BY year_month DESC
LIMIT 10;

Database

bossmann_output

Tables and views

Filter tables and views

Tables (1)

raw

Views (0)

13

(total_sales - LAG(total_sales) OVER (ORDER BY year_month))

14

/ NULLIF(LAG(total_sales) OVER (ORDER BY year_month),0) AS sales_mom_growth,

15

(total_profit - LAG(total_profit) OVER (ORDER BY year_month))

16

/ NULLIF(LAG(total_profit) OVER (ORDER BY year_month),0) AS profit_mom_growth

17

FROM monthly

18

ORDER BY year_month DESC

19

LIMIT 10;

20

SQL

Ln 20, Col 1

Run again

Explain

Cancel

Clear

Create

Reuse query results

up to 60 minutes ago

Query results

Query stats

Completed

Time in queue: 87 ms

Run time: 715 ms

Data scanned: 65.73 MB

Results (4)

Copy

Download results CSV

Search rows

#	year_month	total_sales	total_profit	sales_mom_growth	profit_mom_growth
1	2022-06	2.342580937999996E7	2.342580937999996E7	-0.10678778536274486	-0.10678778536274486
2	2022-05	2.6226476749999978E7	2.6226476749999978E7	-0.09058074103091107	-0.09058074103091107
3	2022-04	2.8838708319999866E7	2.8838708319999866E7	282.6114911069936	282.6114911069936
4	2022-03	101683.84999999998	101683.84999999998		

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