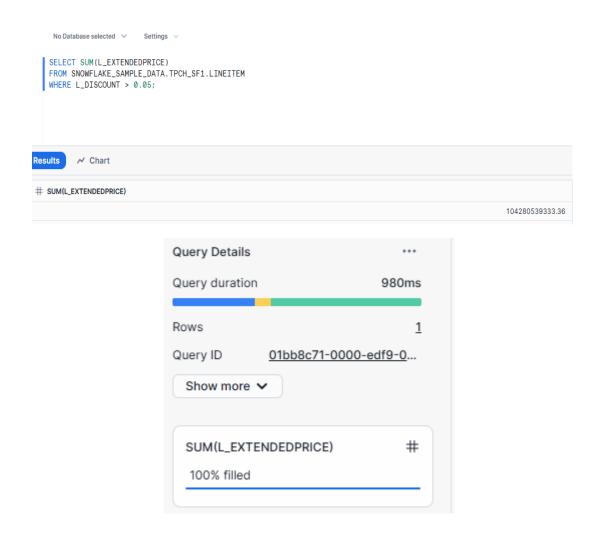
Assignment -4

• Run a Query:

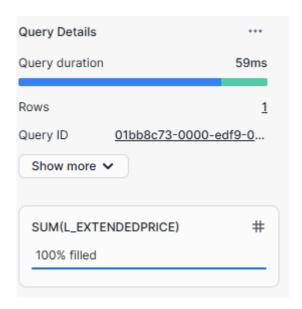
SELECT SUM(L_EXTENDEDPRICE)
FROM SNOWFLAKE_SAMPLE_DATA.TPCH_SF1.LINEITEM
WHERE L_DISCOUNT > 0.05;



• Re-Run the Same Query:

Execute the query again immediately after the first run.

Snowflake uses its Result Cache to return results faster. Note the reduced query execution time.



• Monitor Cache Usage:

Go to the History tab in the Web UI.

Locate the query and check the Bytes Scanned column:

If the value is 0, the query was served from the Result Cache.

Otherwise, it was processed from the database.

Statistics

Statistics	
Scan progress	100.00%
Bytes scanned	21.64MB
Percentage scanned from cache	0.00%
Bytes sent over the network	0.05MB
Partitions scanned	10
Partitions total	10

So, for the first time when we run the query almost **21.64MB** bytes are scanned. While, its **0** for the second one as result cache is used.

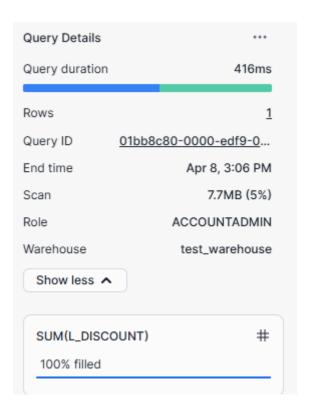


• Test the Metadata Cache:

Create a new query that reads from the same table but accesses different columns.

Snowflake leverages metadata cache to optimize query parsing and planning.

```
SELECT SUM(L_DISCOUNT)
FROM SNOWFLAKE_SAMPLE_DATA.TPCH_SF1.LINEITEM
WHERE L_QUANTITY > 5;
```



Statistics

Scan progress	100.00%
Bytes scanned	7.72MB
Percentage scanned from cache	60.33%
Bytes sent over the network	0.07MB
Partitions scanned	10
Partitions total	10