Snowflake SQL

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Can you explain what the "Qualify" keyword does in Snowflake SQL?

Qualify keyword is an enhancement that is available in Snowflake and not part of ANSI SQL.

Qualify helps us when we are using windows functions like Rank or Row_Number.

With Qualify we can use the windows functions directly in the Filter clause to filter based on the return value of the windows function.

```
i, p, o,
ROW_NUMBER() OVER (PARTITION BY p ORDER BY o) AS row_num
FROM qt
WHERE row_num = 1

SELECT
i, p, o,
ROW_NUMBER() OVER (PARTITION BY p ORDER BY o) AS row_num
FROM qt
QUALIFY row_num = 1
```

#How can you change rows to columns in Snowflake?

We can use PIVOT to change rows to columns in Snowflake.

#How can you change columns to rows in Snowflake?

Use UNPIVOT to change columns to rows in Snowflake.

What does the DATE_PART function do?

DATE_PART is a date function which can be used to extract part of the date like the MONTH or DAY or QUARTER.

SELECT DATE_PART(QUARTER, '2024-02-22'::DATE);

The supported parts that can be extracted are HOUR / MINUTE / SECOND, YEAR / DAY / WEEK/ MONTH / QUARTER



What does the DATE_FROM_PARTS function do?

DATE_FROM_PART is a date function which can be used to construct dates from date, year or month information.

DATE_FROM_PARTS(< year >, < month >, < day >)

SELECT DATE_FROM_PARTS(1947, 7, 15); 1947-07-15



Explain the SPLIT_PART function?

Split part can split a string based on the split parameter provided to the function

```
SELECT split_part('sujith@snowflake.com', '@', 1);
                  sujith
SELECT split_part('sujith@snowflake.com', '@', 2);
                  snowflake.com
SELECT split_part('248-600-7777','-',2);
                  600
```



SELECT GREATEST(2,13,NULL), what is the expected answer for this?

The answer will be NULL, any operation with NULL produces NULL

SELECT GREATEST(2,13,77)

77



SELECT
O_CUSTKEY,
COUNT(*) FROM ORDERS
GROUP BY ALL
is this a valid query?

Yes this is a valid query. Snowflake released a behavior change in 2023 to enable

GROUP BY ALL.

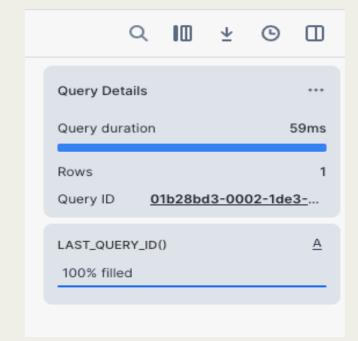
40 41	GROUP BY ALL	
→ Results ✓ Chart		
	O_CUSTKEY	··· COUNT(*)
1	126217	26
2	62579	10
3	60371	9
4	85978	21
5	99457	16
6	102631	21
7	11846	14
8	144784	20
9	125996	9
10	133093	19

SELECT O CUSTKEY, COUNT(*) FROM ORDERS

Explain the LAST_QUERY_ID() function?

It returns the query ID for the last command that was used in the session.





SELECT LAST_QUERY_ID(); -- Last query ID run in the session

SELECT LAST_QUERY_ID(-1);--Last query ID run in the session same as above

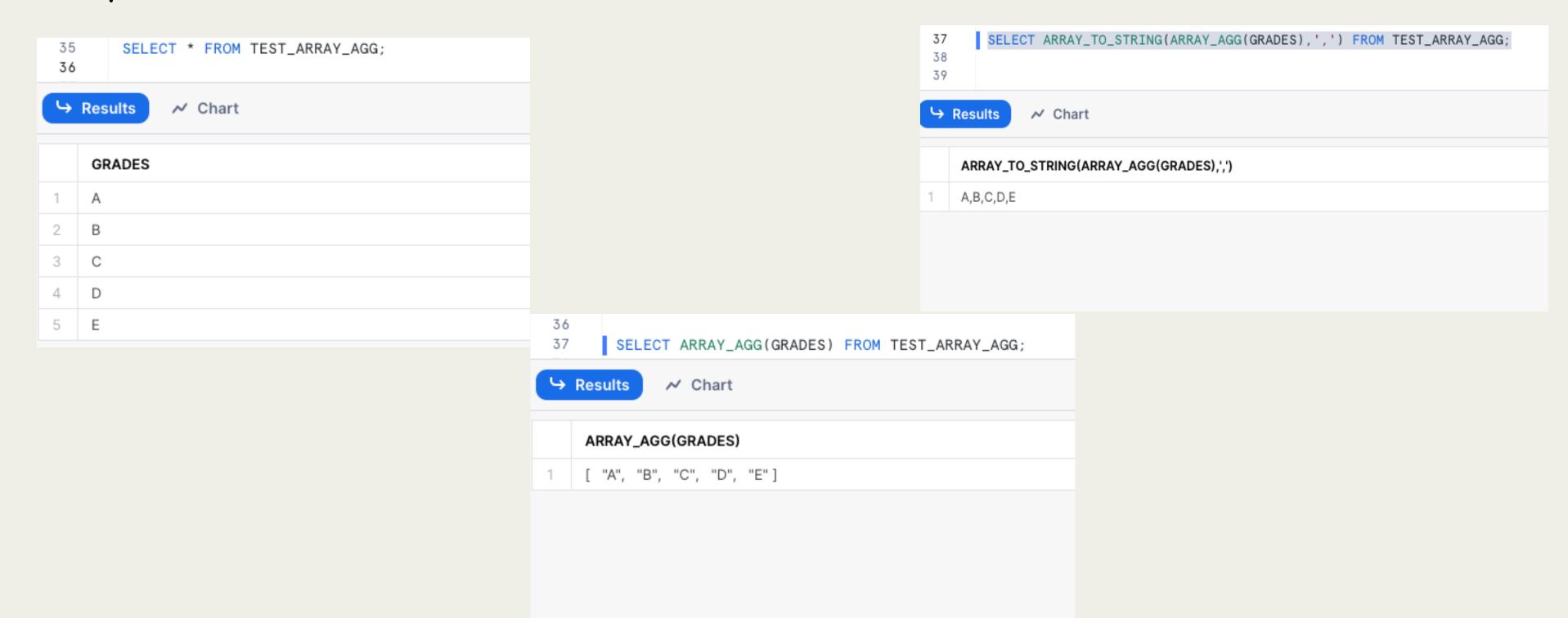
SELECT LAST_QUERY_ID(-2); --Returns the query ID of the query run before the last query.

SELECT LAST_QUERY_ID(1);--First query ID run in the session

SELECT LAST_QUERY_ID(2); -- Second query ID run in the session

What does the function ARRAY_AGG do?

ARRAY_AGG takes a column as input and converts rows to array of comma separated values.



Thank you!

