



# In SQL - the **"order of execution"** is the order in which clauses within a query are evaluated.

This is often **different** to the order that the query is written in.

Understanding this order can be useful when looking to **debug** & **optimise** queries



### Points to the table where the required data is stored



# JOIN + ON

Obtains the matching records based upon shared column(s) when the required data lives in multiple tables



### WHERE

Filters the requested source data at a row level. Does not allow column aliases or aggregate functions to be applied



## GROUP BY

Groups rows with the same values together. Often used with aggregate functions. Column aliases are allowed



### HAVING

Applies conditions and/or filters after aggregation takes place. Does not allow column aliases



### SELECT + WINDOW FUNCTIONS

Select specfies the columns to be returned. Window functions look at values from a set of rows (the window) and based on this, return a value for each row



### ORDER BY

Sorts the resulting rows after filtering & aggregation. Column aliases are allowed



# LIMIT / FETCH

#### Limits the number of rows that are returned by the query





Wont to lond on incredible role in the exciting, future-proof, and lucrative field of **Data Science?** 



"I had over 40 interviews without an offer. After DSI I quickly got **7 offers** including one at KPMG and my amazing new role at Deloitte!" - Ritesh



"The best program I've been a part of, hands down" - Christian



"DSI is **incredible** - everything is taught in such a clear and simple way, even the more complex concepts!"

- Arianna

>> https://data-science-infinity.teachable.com