SQL Queries:

Inner join: Common in both tables

Left Join: All on left table and matched records from right table

Right Join: All on right table and matched records from left side

Full Outer Join: All records when there is a match in either left (table1) or right (table2) table records.

**SQL join: where clause vs. on clause ?**

* Does not matter for inner joins
* Matters for outer joins

a. WHERE clause: **After** joining. Records will be filtered after join has taken place.

b. ON clause - **Before** joining. Records (from right table) will be filtered before joining. This may end up as null in the result (since OUTER join).

[**https://stackoverflow.com/questions/354070/sql-join-where-clause-vs-on-clause/20981676#20981676**](https://stackoverflow.com/questions/354070/sql-join-where-clause-vs-on-clause/20981676#20981676)

**LEFT JOIN vs. LEFT OUTER JOIN in SQL Server ?**

Here's a list of equivalent syntaxes:

A LEFT JOIN B A LEFT OUTER JOIN B

A RIGHT JOIN B A RIGHT OUTER JOIN B

A FULL JOIN B A FULL OUTER JOIN B

A INNER JOIN B A JOIN B

Select \* from Employee where employee\_name IS NULL(Always use IS NULL and not = NULL)

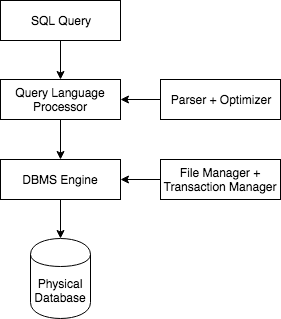
[Data Types](https://www.w3schools.com/sql/sql_datatypes.asp):

Char(length) – stores a value of given size always

Varchar(length) – stores a value of any length less than the given size

BLOB - For BLOBs (Binary Large Objects). Holds up to 65,535 bytes of data

SQL Commands- <https://www.interviewbit.com/tutorial/sql-commands/#sql-commands>



Communication when multiple servers/players involved

Sharding in detail - <https://medium.com/@Pinterest_Engineering/sharding-pinterest-how-we-scaled-our-mysql-fleet-3f341e96ca6f> **(MUST READ)**

<https://en.wikipedia.org/wiki/Paxos_(computer_science)> (yet to read)

Different Normalization Techniques: