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SQL

CHEAT SHEET

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WHAT IS SQL ?

Structured Query Language or SQL is a standard Database language which is used to create, maintain, & retrieve the relational database

TYPES OF SQL COMMANDS

- **DDL -** Define the schema of database or itS objects (like tables & indexes) (Ex - CREATE, ALTER, DROP)
- **DML -** Manipulate & Select data in the database (Ex - SELECT, INSERT)
- **DCL -** Rights, permissions & other controls of the database system (Ex - GRANT, REVOKE)

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MOST COMMON DATATYPES

- int(10)
- varchar(255)
- text
- TIMESTAMP
- ENUM('Choice1', 'Choice2', ...)

IMPORTING & EXPORTING DATA FROM CSV

Importing data from CSV – LOAD DATA LOCAL INFILE <full_file_path> INTO TABLE <tableName>
COLUMNMS TERMINATED BY ',' OPTIONALLY ENCLOSED BY "" ESCAPED BY ""
LINES TERMINATED BY '\n'
IGNORED 1 LINES

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Exporting data from CSV - SELECT * INTO OUTFILE <outputFilePath> FIELDS TERMINATED BY ',' OPTIONALLY CLOSED BY"" LINES TERMINATED BY '\n' FROM <tableName>;

CREATING A TABLE SYNTAX

```
CREATE TABLE <tableName> {
        <filename1><fieldtype1>
(NULL/NNOT NULL),
<fieldname2><fieldtype2>
};
```

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INSERTING DATA IN A TABLE

```
INSERT INTO<tableName>(column1, column2,
column3,...)
Values(value1, value2, value3, ...);
```

BASIC QUERY SYNTAX

```
SELECT f(col1), g(col2),... from table 1
...filter the rows
WHERE col2=1 & col5=4...Aggregate the
data
GROUP BY...
...Filter the results
HAVING h(col4)>=<...
...Sort the results
ORDER BY col2
```

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f,g,h are aggregation functions like COUNT(*), COUNT(DISTINCT), SUM(), STDDEV() etc

Other useful Keywords which work with SELECT

DISTINCT

LIKE

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WHAT IS AN INDEX?

- Data structure that improves the speed of operations in a table
- Indexes can be created using one or more columns
- Indexing a column improves search but increases the time for insert & update

CREATING AN INDEX

```
create index <index_name> on <table>
(<Columnto Index>)
```

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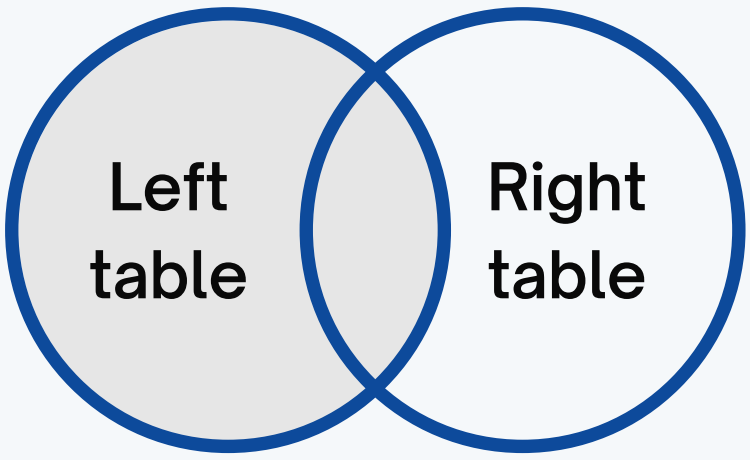
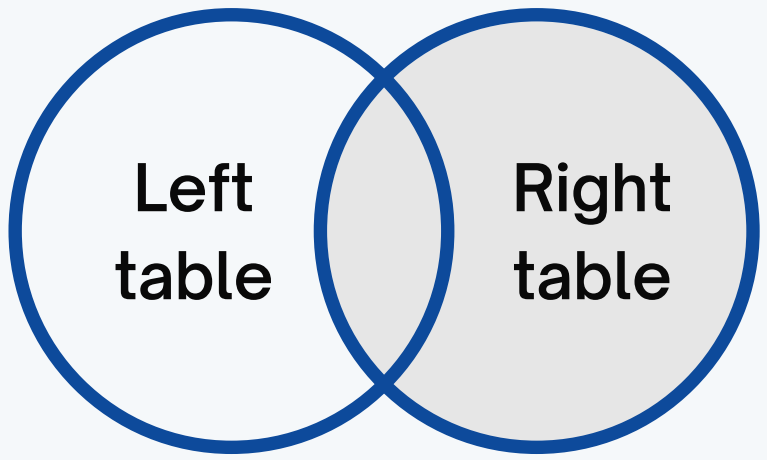
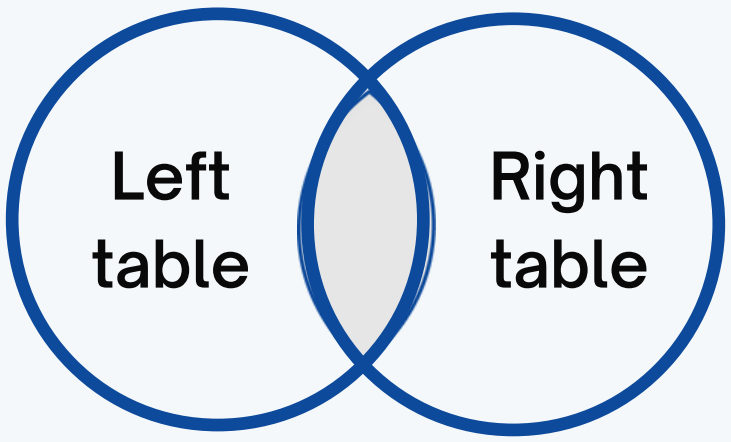
JOINS



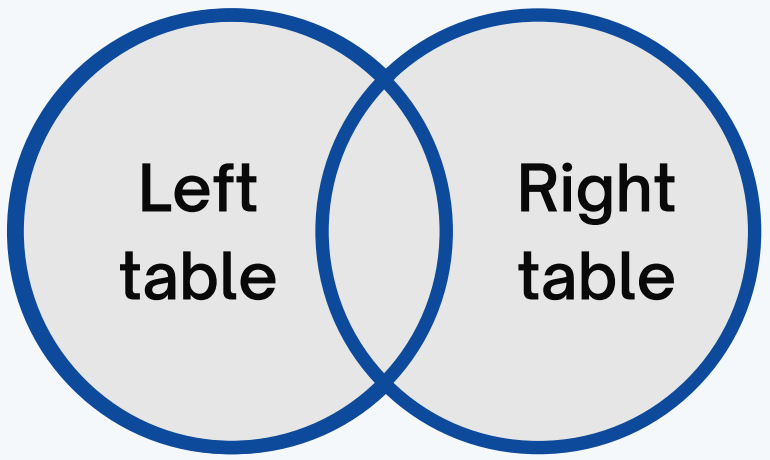
Left Join



Right Join



Inner Join



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