

DATABASE

MYSQL

Where to store DATA:

- Introduction to database
- Need of RDBMS
- What Is MySQL?
- How data is stored
- Types of Commands
 - DDL
 - DML
 - DQL

Need the software:

- Install MySQL Database Server
- Connect to MySQL Server
- ~~Download MySQL Sample Database~~
- ~~Load Sample Database~~

Lets get started:

- Create database
- Select database
- Understand types to store data
- Create table
- Insert records
- Fetch Records

How to identify records [Constraints]

- Primary key
- Unique key
- Foreign key
- Alternate key
- Candidate key
- Default
- Null vs Not null

Explore DDL operations

- Alter command
- Delete command
- Drop command
- Describe command
- Add command
- AUTO_INCREMENT

Manipulate/ Modify Data [DML]

- Insert records for all and few columns
- Insert dates
- Update records
- Delete records

DATABASE

Querying Data [DQL]

- SELECT FROM
- SELECT WITHOUT FROM
- Filtering data
 - WHERE
 - SELECT DISTINCT
 - OPERATORS
 - Arithmetic
 - Comparison
 - Logical
 - AND
 - OR
 - IN
 - BETWEEN
 - LIKE
 - LIMIT
 - IS NULL
 - NOT
 - ANY
 - EXISTS
- Fetch limited records [LIMIT]
- Table & Column Aliases
- CASE Statements
- IF

Sorting data

- ORDER BY

Apply operations to get the data collectively [AGGREGATE OPERATIONS]

- COUNT
- MAX
- MIN
- SUM
- AVG

Fetch Data From Multiple datasets

- Joins
 - INNER JOIN
 - LEFT JOIN
 - RIGHT JOIN
 - SELF JOIN
 - CROSS JOIN
- GROUP BY
- HAVING
- Subquery
- UNION
- MINUS
- INTERSECT

FUNCTIONS

- STRING
- DATE
- MATH