



DATABASE PROGRAMMING

- **MYSQL DATABASE**

- Create Database
- Select Database
- Show Databases
- Drop Database
- Copy Database

- **TABLE & VIEWS**

- DDL Commands (CREATE,ALTER,TRUNCATE,DROP).
- DML Commands (INSERT,UPDATE,DELETE)
- DCL Commands (GRANT,REVOKE)
- TCL Commands (COMMIT,ROLLBACK,SAVEPOINT)
- DQL Commands (SELECT)
- Show Tables
- Rename Table
- Describe Table
- Temporary Table
- Copy Table
- Repair Table
- Add/Delete Column
- Show Columns
- Rename Column
- Views
- Table Locking
- Account Lock (Optional)
- Account Unlock (Optional)

- **MYSQL KEY**

- Unique Key
- Primary Key
- Foreign Key
- Composite Key

- **MYSQL QUERIES**

- Constraints
- INSERT Record
- INSERT IGNORE Record
- UPDATE Record
- DELETE Record
- SELECT Record
- Replace
- Insert On Duplicate Key Update
- INSERT IGNORE
- Insert Into Select

- **MYSQL CLAUSES**

- WHERE
- DISTINCT
- FROM
- ORDER BY
- GROUP BY
- HAVING

- **MYSQL INDEXES**

- Create Table
- Drop Table
- Show Indexes
- Unique Table
- Clustered Table

- **CONTROL FLOW FUNCTION**

- IF()
- IFNULL()
- NULLIF()
- CASE
- IF Statement

- **MYSQL CONDITIONS**

- AND
- OR
- AND OR
- Boolean
- LIKE
- IN
- ANY
- Exists
- NOT
- Not Equal
- IS NULL
- IS NOT NULL
- BETWEEN

- **MYSQL JOIN**

- JOIN
- Inner JOIN
- Left JOIN
- Right JOIN
- CROSS JOIN
- SELF JOIN
- DELETE JOIN
- Update JOIN
- EquiJOIN
- Natural Join
- Left Join vs Right JOIN
- Union vs Join

- **ALL FUNCTIONS**

- Aggregate Functions
- count()
- sum()
- avg()
- min()

- max()
- GROUP_CONCAT()
- first()
- last()
- ROW_NUMBER()
- UPPER
- SUBSTR
- SUBSTRING_INDEX
- SUBSTRING
- TRIM
- RPAD
- RTRIM
- REPLACE
- REVERSE
- RIGHT
- NOT LIKE
- LOWER
- LPAD
- LTRIM
- YEAR()
- LIKE
- INSTR
- LCASE
- LEFT
- LENGTH
- CHAR
- CONCAT
- AUTO_INCREMENT (Sequences)
- MINUTE()
- MONTH()
- MONTHNAME()
- NOW()
- SYSDATE()
- TIMEDIFF()
- TIMESTAMP()
- TIME()
- Minus
- Intersect

- DATE_ADD()
- DATE_FORMAT()
- DATE_SUB()
- DATE()
- DATEDIFF()
- DAY()
- DAYNAME()
- HOUR()
- CAST
- Limit
- UnionUnion vs Union All

• SUBQUERIES

- Single-row subquery
- multiple row subquery
- multiple column subquery
- correlated subquery
- nested subquery

• REGULAR EXPRESSIONS

- Regular Expressions
- RLIKE
- Not Like Operator
- Not regexp Operator
- regexp Operator
- regexp_instr() Function
- regexp_like() Function
- regexp_replace() Function
- regexp_substr() Function

• FULLTEXT SEARCH

- Fulltext Search
- Natural Language Fulltext Search
- Boolean Fulltext Search
- Query Expansion Fulltext Search

- ngram Fulltext Parser

- **MySQL Globalisation**

- Character Set
- Collation

- **User Management:**

- Create User
- Drop User
- Show Users
- Change User Password

- **MySQL Privileges**

- Grant Privilege
- Revoke Privilege

- **PL/SQL**

- Stored Procedure
- Stored Functions
- Cursor

- **MySQL Triggers**

- Trigger
- Create Trigger (INSERT,UPDATE)
- Show Trigger
- DROP Trigger

- **MySQL Misc Functions:**

- Comments
- CHECK CONSTRAINT
- Change Storage Engine
- Export & Import Database
- Import CSV File in Database
- Export Table to CSV
- Derived Table
- UUIDLEAD And LAG Function
- CTE
- On Delete Cascade
- UPSERT
- Commands Cheat-Sheet
- Transaction
- Partitioning
- Signal Resignal
- Number Format Function
- Ranking Functions
- Window Functions
- VARCHAR
- ENUM
- SET
- DECIMAL
- Convert()
- COALESCE()
- Wildcards
- Alias
- ROLLUP
- INT
- Today
- ROW COUNT
- Prepared Statement
- Literals(Constants)
- Date & Time
- Storage Engines
- Explain
- Sequence
- JSON

- Standard Deviation
- Select Random Records
- Extract
- ProcessList
- BITChange Column Type
- Interval
- Login with Different User
- IS NOT ADDBDATE()
- ADDTIME()
- CONVERT_TZ()
- CURDATE()
- CURRENT_DATE()
- CURRENT_TIME()
- CURRENT_TIMESTAMP()
- CURTIME()
- DAY OF MONTH()
- DAY OF WEEK()
- DAY OF YEAR()
- FROM_DAYS()
- FROM_UNIXTIME()
- GET_FORMAT()
- LAST_DAY()
- LOCALTIME()
- LOCALTIMESTAMP()
- MAKEDATE()
- MAKETIME()
- MICROSECOND()
- PERIOD_ADD()
- PERIOD_DIFF()
- QUARTER()
- SEC_TO_TIME()
- SECOND()
- STR_TO_DATE()
- SUBDATE()
- SUBTIME()
- TIME_FORMAT()
- TIME_TO_SEC()
- TIMESTAMPADD()

- TIMESTAMPDIFF()
- TO_DAYS()
- UNIX_TIMESTAMP()
- UTC_DATE()
- UTC_TIME()
- UTC_TIMESTAMP()
- WEEK()
- WEEKDAY()
- WEEK OF YEAR()
- YEARWEEK()
- Declaring Variables
- Loops and Conditional Statements
- BIN
- BIT_LENGTH
- CHAR_LENGTH
- CHARACTER_LENGTH
- CONCAT_WS
- ELT
- EXPORT_SET
- FIELD
- FIND_IN_SET
- FORMAT
- HEX
- INSERT
- LOAD_FILE
- LOCATE
- MAKE_SET
- MID
- NOT REGEXP
- OCTET_LENGTH
- ORD
- POSITION
- QUOTE
- REGEXP
- REPEAT
- RLIKE
- NOT RLIKE
- SOUNDEX

- SOUNDS LIKE
- SPACE
- STRCMP
- UCASE
- UNHEX

- **Q/A:**

- How to Check Database in MySQL
- How to Delete a Row in MySQL
- How to Insert Multiple Rows in MySQL
- How To Insert Values in MySQL
- How to use MySQL Trigger
- How to use MySQL Before Trigger
- How to use MySQL After Trigger
- How to Add Data to MySQL Database
- How to Comment in MySQL
- Delete all Data from Table MySQL
- How to select nth Highest Record
- Find Duplicate Records
- Delete Duplicate Records
- Add Auto Increment to Existing Column in MySQL
- Reset Auto-Increment