Online

MYSQL Mysqu CHEAT SHEET

MYSQL DATABASE



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MySQL cheat sheet document to get a quick reference keyword and use for practice: MySQL Cheat Sheet

- 1. Basics
 - Connecting to MySQL Server
 - Creating a Database
 - Selecting a Database
 - Creating Tables
 - Dropping Tables
- 2. Data Types
 - Numeric Types (INT, FLOAT, DOUBLE, etc.)
 - String Types (VARCHAR, CHAR, TEXT, etc.)
 - Date and Time Types (DATE, TIME,

DATETIME, TIMESTAMP, etc.)

- Other Data Types (BOOLEAN, ENUM, SET, etc.)
- 3. Retrieving Data
 - SELECT Statement
 - Sorting (ORDER BY)
 - Filtering (WHERE)
 - Limiting Results (LIMIT)
- 4. Updating Data
 - INSERT INTO
 - UPDATE
 - DELETE
- 5. Filtering Data
 - Comparison Operators (=, <>, <, >, <=, >=)
 - Logical Operators (AND, OR, NOT)
 - IN Operator
 - BETWEEN Operator
 - LIKE Operator
 - NULL and NOT NULL
- 6. Advanced Queries
- Joins (INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL JOIN)
- Aggregate Functions (COUNT, SUM, AVG, MAX, MIN)
 - Grouping (GROUP BY)
 - HAVING Clause
- 7. Data Manipulation Functions
- String Functions (CONCAT, SUBSTRING, LENGTH, etc.)
- Date and Time Functions (NOW, DATE_FORMAT, etc.)

- Mathematical Functions (ROUND, ABS, etc.)
- 8. Table Constraints
 - PRIMARY KEY
 - FOREIGN KEY
 - UNIQUE
 - NOT NULL
 - DEFAULT
- 9. Indexes
 - Creating Indexes
 - Types of Indexes (B-Tree, Hash, etc.)
 - Dropping Indexes
- 10. Transactions
 - START TRANSACTION
 - COMMIT
 - ROLLBACK
- 11. Views
 - Creating Views
 - Dropping Views
- 12. Stored Procedures
 - Creating Stored Procedures
 - Executing Stored Procedures
- 13. User Management
 - Creating Users
 - Granting and Revoking Privileges
- 14. Backing Up and Restoring Databases
 - mysgldump
 - mysqlimport
- 15. Common MySQL Functions (brief overview)
 - CONCAT, IF, CASE, etc.
- 16. Useful MySQL Tips and Best Practices
 - practice with real-world sample data and queries for your all exercises
 - Each concept try to practice at least 5
 real time scenario base example to
 make you master in MySQL which will
 help you to grasp and apply skills on
 any other RDBMS databases using
 SQL.



MySQL cheat sheet document with examples and queries for various operations:

MySQL Cheat Sheet with Examples and Queries

- 1. Basic SQL Queries
 - -- Create a database CREATE DATABASE mydatabase;
 - Use a databaseUSE mydatabase;
 - -- Create a table CREATE TABLE users (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(50), age INT, email VARCHAR(100));
- -- Insert data into a table INSERT INTO users (name, age, email) VALUES ('John', 30, 'john@example.com');
 - -- Select data from a table SELECT * FROM users;
- -- Update data in a table UPDATE users SET age = 31 WHERE name = 'John';
 - -- Delete data from a table
 DELETE FROM users WHERE name = 'John';
- 2. Filtering and Sorting
 - -- Filter data using WHERE clause SELECT * FROM users WHERE age > 25;
 - -- Sort data using ORDER BY clause SELECT * FROM users ORDER BY age DESC;
 - -- Limit the number of resultsSELECT * FROM users LIMIT 5;
 - -- Offset and Limit SELECT * FROM users LIMIT 5 OFFSET 10;
- 3. Aggregate Functions-- Count the number of rows
 - -- Count the number of rows
 SELECT COUNT(*) FROM users;

- -- Calculate the average age SELECT AVG(age) FROM users;
- -- Find the maximum age SELECT MAX(age) FROM users;
- -- Sum the ages SELECT SUM(age) FROM users;
- 4. Joins
- -- Inner Join SELECT orders.id, orders.order_date, customers.name FROM orders INNER JOIN customers ON orders.customer id = customers.id;
- Left Join
 SELECT orders.id, orders.order_date,
 customers.name
 FROM orders
 LEFT JOIN customers ON orders.customer_id
 = customers.id;
- -- Right Join SELECT orders.id, orders.order_date, customers.name FROM orders RIGHT JOIN customers ON orders.customer id = customers.id;
- Grouping and Aggregating

 Grouping data using GROUP BY

 SELECT country, COUNT(*) as count FROM customers GROUP BY country;
- Filtering groups using HAVING
 SELECT country, COUNT(*) as count FROM
 customers GROUP BY country HAVING count >
- 6. Subqueries
- -- Subquery in WHERE clause SELECT * FROM orders WHERE customer_id IN (SELECT id FROM customers WHERE country = 'USA');





-- Subquery in SELECT clause SELECT customer_id, (SELECT name FROM customers WHERE id = customer_id) as customer_name FROM orders;

7. Aliases

- -- Alias for table name
 SELECT o.id, o.order_date, c.name
 FROM orders AS o
 INNER JOIN customers AS c ON
 o.customer_id = c.id;
- -- Alias for column name SELECT name AS full_name FROM customers;

8. Views

- -- Create a viewCREATE VIEW customer_details ASSELECT id, name, email FROM customers;
- -- Use a view
 SELECT * FROM customer_details;
- 9. Indexes
 - -- Create an index CREATE INDEX idx_name ON users (name);
 - -- Drop an index DROP INDEX idx_name ON users;
- 10. Transactions
 - -- Start a transaction START TRANSACTION;
 - -- SQL statements
 - -- Commit the transaction COMMIT;
 - -- Rollback the transaction ROLLBACK;

These examples cover various MySQL queries and operations. You can use them as a reference to understand how to interact with MySQL databases using SQL queries.

Happy querying!