

SQL Commands Cheat Sheet

Essential commands for sql developers and administrators

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SQL Database Operations

```
CREATE DATABASE user_db;
```

Create a new database

```
CREATE TABLE
`user_db`.`users` (
  `id` INT NOT NULL
  AUTO_INCREMENT,
  `name` VARCHAR(45) NOT
  NULL,
  `age` INT NOT NULL,
  `is_student` TINYINT
  NOT NULL,
  `course` VARCHAR(45)
  NULL,
  PRIMARY KEY (`id`));
```

Create a new table with columns and primary key

```
INSERT INTO
`user_db`.`users`
(`name`, `age`,
`is_student`, `course`)
VALUES ('Alice Johnson',
21, 1, 'Computer Science');
```

SQL Query Operations

```
SELECT * FROM
`user_db`.`users`
ORDER BY `is_student`
DESC, `age` ASC;
```

Sort results by specific columns

```
SELECT * FROM
`user_db`.`users`
LIMIT 10;
```

Limit the number of results returned

```
UPDATE `user_db`.`users`
SET `age` = 10, `name` =
'Jeff'
WHERE `id` = 1;
```

Update existing records in a table

```
DELETE FROM
`user_db`.`users`
WHERE `id` = 20;
```

Delete records from a table

```
21, 1, 'Computer  
Science');
```

Insert data into a table

```
SELECT * FROM  
`user_db`.`users`;
```

Retrieve all data from a table

```
SELECT `name`, `age`  
from `user_db`.`users`;
```

Retrieve specific columns from a table

SQL Filtering & Functions

```
SELECT * FROM  
`user_db`.`users`  
WHERE `is_student` = 1;
```

Filter results using WHERE clause

```
SELECT * FROM  
`user_db`.`users`  
WHERE `name` LIKE  
'%sam%';
```

Search using wildcard pattern matching

```
SELECT COUNT(*) AS  
total_users  
FROM `user_db`.`users`;
```

Count rows in a table

```
SELECT AVG(`age`) AS  
avg_student_age  
FROM `user_db`.`users`  
WHERE `is_student` = 1;
```

Calculate average value with
condition

```
DROP DATABASE user_db;
```

Delete an entire database

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