# mySQL

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## Start MySQL & Login

```
mysql -u root –p
```

```
exit;
```

```
SHOW DATABASES;
```

```
CREATE DATABASE college;
```

```
USE college;
```

```
DROP DATABASE college;
```

# Table Commands

Create table

CREATE TABLE student (

id INT,

name VARCHAR(50),

age INT

);

# Table Commands

1. Show tables

SHOW TABLES;

2. Describe table

DESC student;

3. Delete table

DROP TABLE student;

# Insert Data

1.Insert single row

INSERT INTO student VALUES (1, 'Amit', 20);

2.Insert selected columns

INSERT INTO student (id, name) VALUES (2, 'Rahul');

3.Insert multiple rows
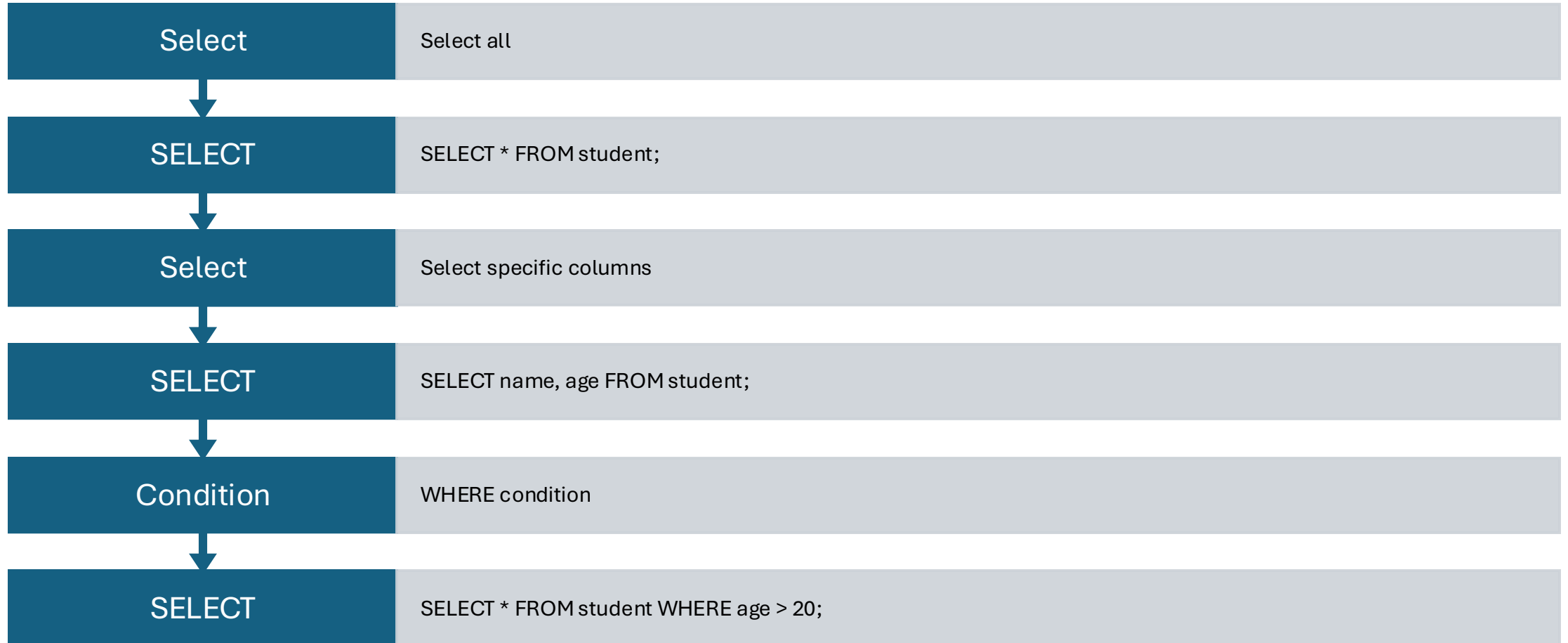
INSERT INTO student VALUES

(3, 'Neha', 21),

(4, 'Priya', 22);

# Select (Read Data)

| | |
|---|---|
| **Select** | Select all |
| **SELECT** | SELECT * FROM student; |
| **Select** | Select specific columns |
| **SELECT** | SELECT name, age FROM student; |
| **Condition** | WHERE condition |
| **SELECT** | SELECT * FROM student WHERE age > 20; |

# Update Data

UPDATE student

SET age = 23

WHERE id = 1;

Delete Data

DELETE FROM student WHERE id = 4;

Delete all rows

TRUNCATE TABLE student;

# Primary Key & Auto Increment

```sql
CREATE TABLE employee (

emp_id INT PRIMARY KEY AUTO_INCREMENT,

name VARCHAR(50),

salary INT

);
```

# Foreign Key

```sql
CREATE TABLE dept (
dept_id INT PRIMARY KEY,
dept_name VARCHAR(50)
);
CREATE TABLE staff (
id INT PRIMARY KEY,
name VARCHAR(50),
dept_id INT,
FOREIGN KEY (dept_id) REFERENCES dept(dept_id)
);
```