

Linux Basic Commands Cheat Sheet

Basic SQL Commands

<code>SELECT * FROM table_name;</code>	- Retrieve all columns from a table
<code>SELECT column1, column2 FROM table_name;</code>	- Retrieve specific columns
<code>INSERT INTO table_name (col1, col2) VALUES (val1, val2);</code>	- Insert new record
<code>UPDATE table_name SET col1 = val1 WHERE condition;</code>	- Update records
<code>DELETE FROM table_name WHERE condition;</code>	- Delete records

Filtering & Sorting

<code>SELECT * FROM table_name WHERE condition;</code>	- Filter records
<code>SELECT * FROM table_name ORDER BY column ASC DESC;</code>	- Sort records
<code>SELECT * FROM table_name WHERE column LIKE '%value%';</code>	- Pattern matching
<code>SELECT * FROM table_name WHERE column IN (val1, val2);</code>	- Match multiple values
<code>SELECT * FROM table_name WHERE column BETWEEN val1 AND val2;</code>	- Range filtering

Joins

<code>SELECT * FROM A INNER JOIN B ON A.id = B.id;</code>	- Inner Join
<code>SELECT * FROM A LEFT JOIN B ON A.id = B.id;</code>	- Left Join
<code>SELECT * FROM A RIGHT JOIN B ON A.id = B.id;</code>	- Right Join
<code>SELECT * FROM A FULL OUTER JOIN B ON A.id = B.id;</code>	- Full Outer Join

Grouping & Aggregation

<code>SELECT COUNT(*) FROM table_name;</code>	- Count records
<code>SELECT AVG(column) FROM table_name;</code>	- Average
<code>SELECT SUM(column) FROM table_name;</code>	- Sum
<code>SELECT column, COUNT(*) FROM table GROUP BY column;</code>	- Group and count
<code>HAVING COUNT(*) > value;</code>	- Filter groups

Table Management

<code>CREATE TABLE table_name (col1 TYPE, col2 TYPE);</code>	- Create table
<code>DROP TABLE table_name;</code>	- Delete table
<code>ALTER TABLE table_name ADD column TYPE;</code>	- Add column
<code>ALTER TABLE table_name DROP COLUMN column;</code>	- Drop column
<code>TRUNCATE TABLE table_name;</code>	- Delete all rows (faster)

Constraints

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PRIMARY KEY	- Unique identifier for records
FOREIGN KEY	- Reference key from another table
NOT NULL	- Disallow null values
UNIQUE	- Ensure all values in a column are unique
CHECK (condition)	- Ensure data meets condition

Indexes & Views

CREATE INDEX idx_name ON table(col);	- Create index
DROP INDEX idx_name;	- Drop index
CREATE VIEW view_name AS SELECT ...;	- Create virtual table
DROP VIEW view_name;	- Drop view

Advanced Queries

SELECT DISTINCT column FROM table;	- Remove duplicates
SELECT TOP 10 * FROM table;	- Top rows (SQL Server)
SELECT LIMIT 10;	- Limit rows (MySQL/PostgreSQL)
CASE WHEN condition THEN result ELSE other END	- Conditional logic
EXISTS (SELECT 1 FROM table WHERE ...)	- Check for existence