

SQL Quick Reference Handout

Purpose	Syntax	Example
Select all	`SELECT * FROM table;`	`SELECT * FROM Artist;`
Select specific columns	`SELECT col1, col2 FROM table;`	`SELECT Name, Country FROM Customer;`
Rename column (alias)	`SELECT col AS alias FROM table;`	`SELECT Name AS ArtistName FROM Artist;`
Filter rows	`... WHERE condition`	`SELECT * FROM Customer WHERE Country='USA';`
Combine conditions	`... WHERE cond1 AND/OR cond2`	`WHERE Country='USA' AND City='Boston'`
Pattern match	`... WHERE column LIKE 'pattern'`	`WHERE Name LIKE 'A%';`
Sort results	`... ORDER BY column ASC/DESC`	`ORDER BY Name ASC`
Limit results	`... LIMIT number`	`LIMIT 10`
Avoid duplicates	`SELECT DISTINCT column FROM table`	`SELECT DISTINCT Country FROM Customer;`
Join tables (inner)	`... FROM A JOIN B ON A.id = B.a_id`	`Artist JOIN Album ON Artist.ArtistId=Album.ArtistId`
Join tables (left)	`... FROM A LEFT JOIN B ON A.id = B.a_id`	`Artist LEFT JOIN Album ON Artist.ArtistId=Album.ArtistId`
Count	`COUNT(column)`	`SELECT COUNT(*) FROM Customer;`
Sum	`SUM(column)`	`SELECT SUM(Total) FROM Invoice;`
Average	`AVG(column)`	`SELECT AVG(UnitPrice) FROM Track;`
Group	`... GROUP BY column`	`GROUP BY Country`
Filter groups	`... HAVING condition`	`HAVING COUNT(*) > 5`
Conditional logic	`CASE WHEN ... THEN ... END`	`CASE WHEN Milliseconds>300000 THEN 'Long' END`
Subquery	`SELECT ... WHERE col = (SELECT ...)`	`WHERE ArtistId IN (SELECT ArtistId FROM Album)`
Create view	`CREATE VIEW name AS SELECT ...`	`CREATE VIEW TopArtists AS SELECT ...`
Delete view	`DROP VIEW name;`	`DROP VIEW TopArtists;`
Insert new row	`INSERT INTO table (col1, col2) VALUES (v1, v2)`	`INSERT INTO Artist (Name) VALUES ('New Artist');`
Update data	`UPDATE table SET col = value WHERE ...`	`UPDATE Customer SET Country='UK' WHERE Country=Country`
Delete rows	`DELETE FROM table WHERE condition;`	`DELETE FROM Customer WHERE Country='Mars';`