HOORVIA ? SQL SYNTAX

Quick Reference Cheat Sheet · US Letter & A4 Printable

Tech & Software · Sheet #547

SQL Clause / Command	Standard ANSI SQL Syntax	Relational Purpose	Performance / Indexing Tip
INNER JOIN	SELECT * FROM a INNER JOIN b ON a.id = b.a_id	Returns records with matching keys in both tables	Ensure foreign keys have B-tree indexes on joining columns
LEFT OUTER JOIN	SELECT * FROM a LEFT JOIN b ON a.id = b.a_id	Returns all records from left table and matched from right	Use to identify orphan rows with WHERE b.id IS NULL
GROUP BY / HAVING	SELECT dept, COUNT(*) FROM emp GROUP BY dept HAVING COUNT(*) > 5	Aggregates rows by common values with post-group filtering	Filter early with WHERE before GROUP BY to reduce hash buffer size
Window Function	ROW_NUMBER() OVER (PARTITION BY dept ORDER BY salary DESC)	Calculates ranked metric across row subset without collapsing rows	Optimal for top-N ranking per partition without subqueries
Index Creation	CREATE INDEX idx_user_email ON users(email);	Accelerates search queries and equality filters	Index frequently filtered/joined columns; avoid indexing low-cardinality columns