

Relational Algebra Expressions and their SQL Equivalents

Columns selected, e.g. *	π	Projection	SELECT
	σ	Selection	FROM
	σ_θ	Constraint	WHERE
Where to join	\bowtie	Natural Join	JOIN or comma in FROM-clause
	\cap	Intersection	INTERSECT
	\cup	Union	UNION
	\setminus	Exclusion	EXCEPT
	δ	Duplicate Elimination	DISTINCT
	τ	Sorting	ORDER BY
	γ	Aggregation/Grouping	GROUP BY

\times Cartesian Product $R_1 \times R_2$ means "concatenate each row of R_1 with each row of R_2 "

ρ Renaming

Bars	
name	address
...	...

$Pubs := \rho_{Bars}(pub, addr)(Bars)$

Pubs	
pub	addr
...	...