

## Appendix 1: Basic Operations in SQL and relational algebra.

SQL keywords: SELECT, FROM, WHERE, AS, DISTINCT, INTERSECT, UNION, EXCEPT, IN, EXISTS, UNIQUE, ANY, ALL, COUNT, SUM, AVG, MAX, MIN, GROUP BY, HAVING, NULL, CHECK, ASSERTION.

Relational Algebra operations:

Projection	$\pi$
Selection	$\sigma$
Union	$\cup$
Intersection	$\cap$
Set Difference	$-$
Cross Product, Cartesian Product	$\times$
Division	$/$
Condition Join	$\bowtie_c$
Renaming	$\rho$