

Section 1: Cheat Sheet



Basic Syntax

SELECT * **FROM** table_name
-> Populates the whole table
SELECT column1, col2, col3... **FROM** table_name
-> Populates specified columns
WHERE col2 = condition (=,>,<,>=,<=)
-> filter rows where column values meet condition
GROUP BY col1, col3
-> Groups rows that have the same values
HAVING Count(*) > value
-> Limit Aggregated Data
ORDER BY col4 (**DESC** or **ASC**)
-> Order you results by a column

Useful Keywords when using SELECTS

DISTINCT -> Returns unique rows
BETWEEN a **AND** b -> Limits range of values
LIKE -> Pattern Search within the column values
IN(a,b,c) -> Returns values contained among list
TOP 100 -> Select top number of rows

Aggregation Functions

COUNT -> Count of rows **SUM** -> Cumulates values
AVG -> Avg's Values **Max/Min** -> Small/Large values

Table Manipulation

CREATE TABLE table_name (col1 datatype, col2 datatype...)
-> Creates new table, specify the type of data in columns
DROP TABLE table_name
-> Permanently deletes data table
TRUNCATE TABLE table_name
-> Deletes data values in table, but table still exists
INSERT INTO table_name (col1, col2) **VALUES** (value1, value2)
-> Insert data into created table
ALTER TABLE table_name **ADD** column_name datatype
-> Add or Delete columns from table
UPDATE TABLE table_name **SET** col1 = value1, col2 = value2...
-> Update existing records in a table

Joins

SELECT * **FROM** table1_name **INNER JOIN** table2_name **ON**
table2_name.column1 = table1_name.column1
-> Joining two tables using like columns
INNER JOIN -> Combining rows from tables where JOIN is true
LEFT JOIN -> Returns all records from left table and matched records from the right table
RIGHT JOIN -> Returns all records from right table and matched records from the left table

Joins Visualized

