## SQL Guidebook

· UPDATE: used to modify existing records in a table - Busic syntax:

UPDATE table-name

SET column (= value ( ...

WHERE condition;

ALTER: used to modify structure of an existing DB bject; allows you to add, delete, or

modify columns and constraints as such, only one per table

· <u>limary key</u>: column 1 set of columns that uniquely identify each now in its own table Foreign key column / set of columns that references the Polmeny key of another table

- Example: Orders table tracks orders

· Customer ID is FK

order ID is PK

· CASE WHEN: Basically have the if-then-else logic structure to categorize, transform, or aggregate data

: CTE: temporary, named result set defined w/in the execution scape of a single SQL statement that acts as a temporary view · Window functions proserve the detail of the individual rows while adding a calculated value alongside them

<u>RANK()</u>: window function that assigns a sequential rank to each no whin a result set or a defined partition based on a specific ordering

- Must be used w/ the OVER dause, which defines the set of nons (the "aindow") it

· LAG: window function that allows us to access data from a previous row in the result

ORDER BY: sorts the results of a query based on one or more columns

vet, making it useful for comparing ourrent values w/ prior ones - Commonly used in time sen'es analysis to track changes over fine

· COALESCE! Used to return the first non-NUCL value from a list of expressions