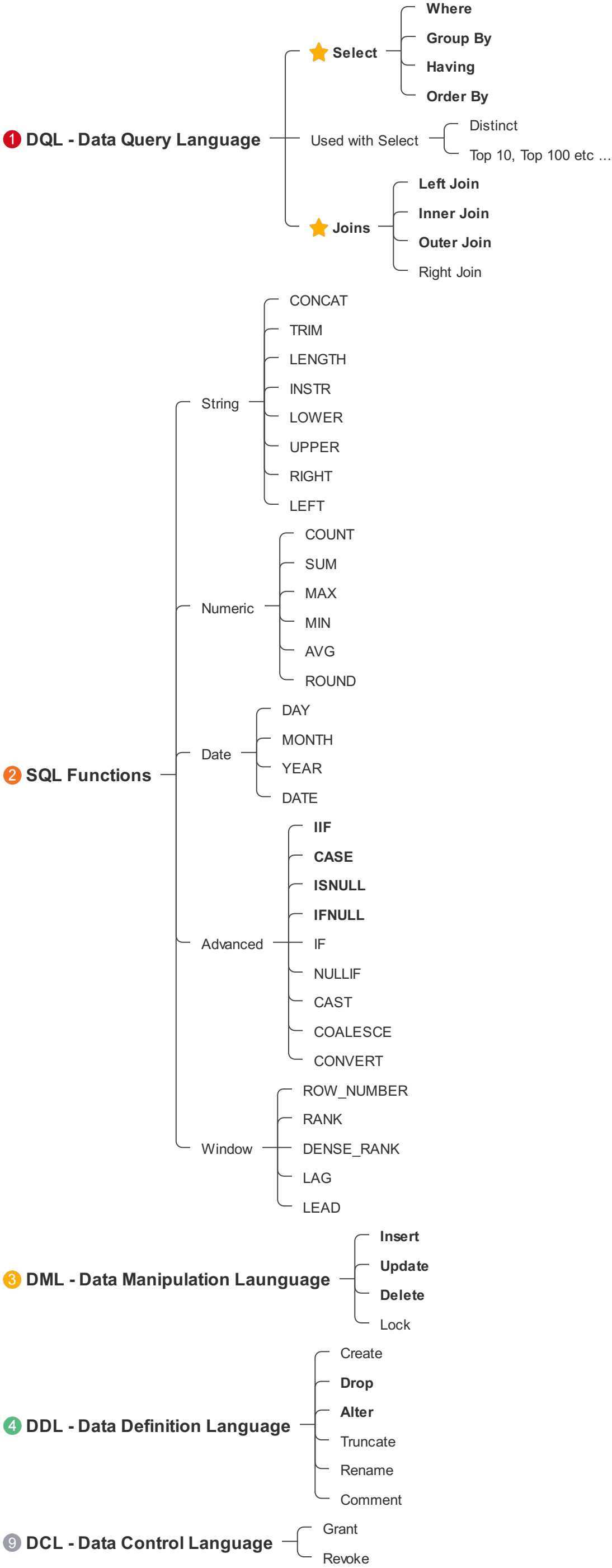


SQL for Data Science

SQL Commands



Transactional Data

- Unique Transaction ID
- Occurs with a Data/Time Stamp

Metrics

- Count
- Quantity
- Price
- Derived
 - Sales — Quantity * Price
 - Date Columns

Methods

- Select, Sort & Filter
- DeDup (Remove Duplicates)
- Summary (Group By)
- Select, Sort & Filter on Summary
- Joins

Insights Stage 1

- Quantity
 - Select Top 10 transactions
 - SELECT
 - ORDER BY <1 Column> DESC
 - TOP 10
 - How many unique Products are there? — SELECT — DISTINCT
 - Exercise — How many unique Properties are there?

Insights Stage 2

- Quantity
 - Find botton 5 Products
 - SELECT
 - GROUP BY
 - ORDER BY <>
 - Find top 5 Products
 - SELECT
 - GROUP BY
 - ORDER BY <> DESC
 - Exercise
 - Find top 5 Property
 - Find bottom 2 Property

Insights Stage 3

- Sales, Dates
 - Select Top 10 transactions
 - Join
 - Create Sales Metric
 - Create New temporary table
 - Did we grow YoY?
 - Create Metrics — Year, Month, Day
 - Group By

Insights Stage 4

- Quantity — Find top 10 Products sold by Year
 - SELECT — Deried Columns
 - Day
 - Month
 - Year
 - Create New temporary table
 - Group By

Insights Stage 5

- Quantity by Date — Did we grow YoY?
 - SELECT — Deried Columns
 - Day
 - Month
 - Year
 - Group By

Insights Stage 6

- Sales
 - Select First transaction within each Product
 - SELECT — DISTINCT
 - ORDER BY <2 Columns> DESC
 - Select Last transaction within each Product
 - SELECT — DISTINCT
 - ORDER BY <2 Columns>
 - Exercise
 - Select First trasaction within each Property
 - Select Last trasaction within each Property

