



# Introduction to **Databases** and Fundamentals of **SQL**

# Agenda

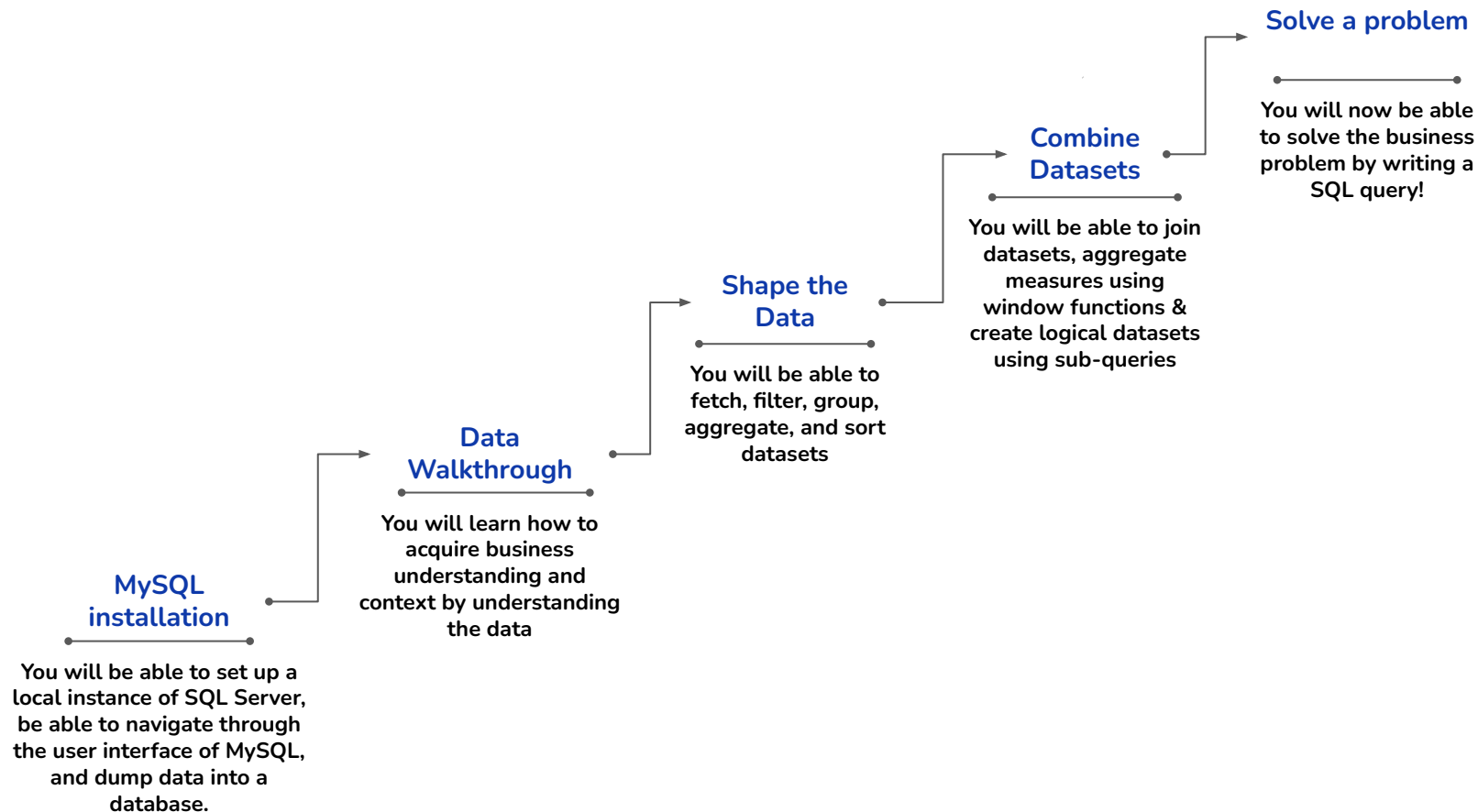
- Problem Definition
- Learning Outcomes
- Setting up MySQL
- Data Understanding
- Data Manipulation using SQL
- Problem Solution
- Summary

# Problem Statement

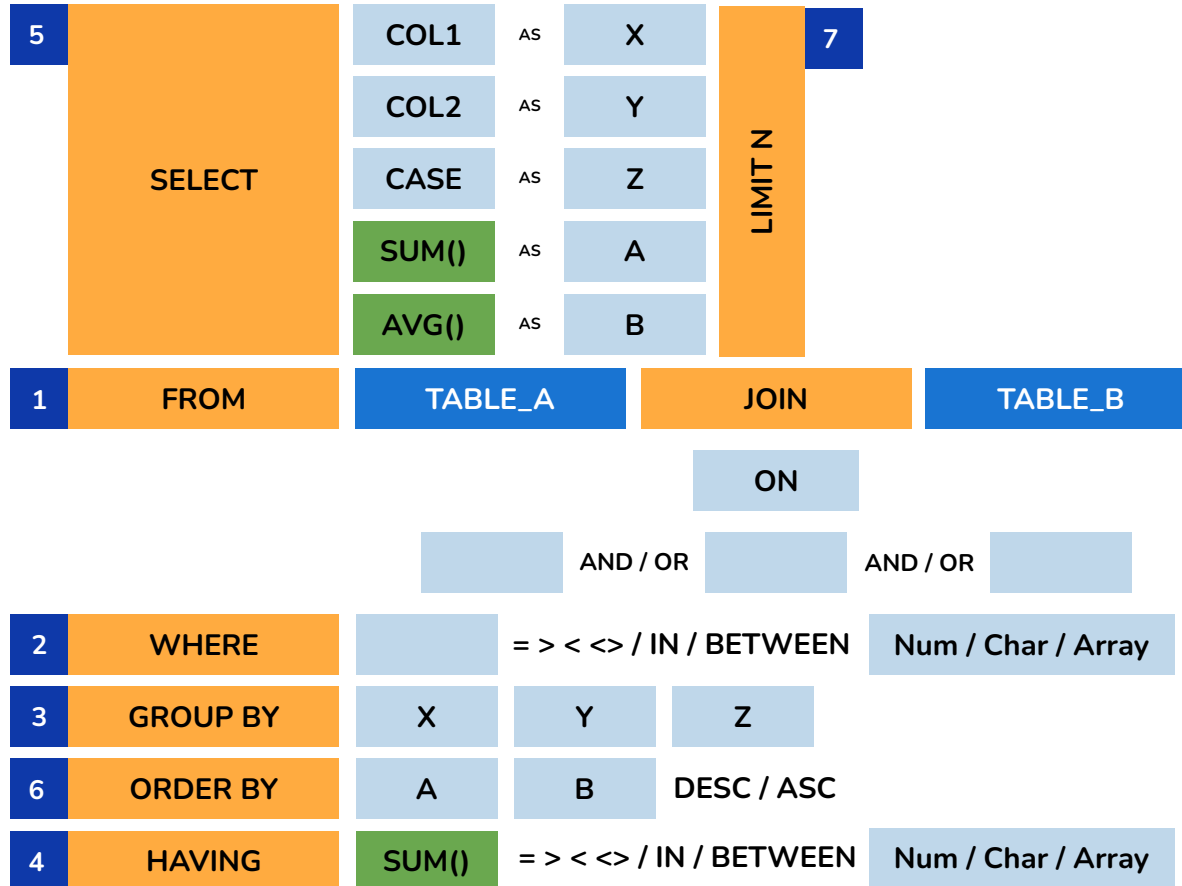
GL-Kart's Supply and Inventory Team wants to prepare for the upcoming spike in demand during the holiday season. The demand forecasting team has predicted a 25% spike in demand for all the product categories that are expected to occur over the next few months. As a data scientist, your objective is to

1. Find the current **supply to demand** ratio and identify the **products at risk** to be delivered
  - You are **safe** if you have stock  $\geq 10\%$  of the demand
  - You are **just matched** if you have stock equal to demand
  - You are **at risk** if your stock is less than the demand
2. Who are the **customers** that have **all their orders at risk**?
3. Find the new supply to demand ratio based on the **25% spike in demand**, and identify the products which will move to be **at risk in the future**
  - What are those products?
  - What is the difference ? How much more supply do you need to get out of risk?

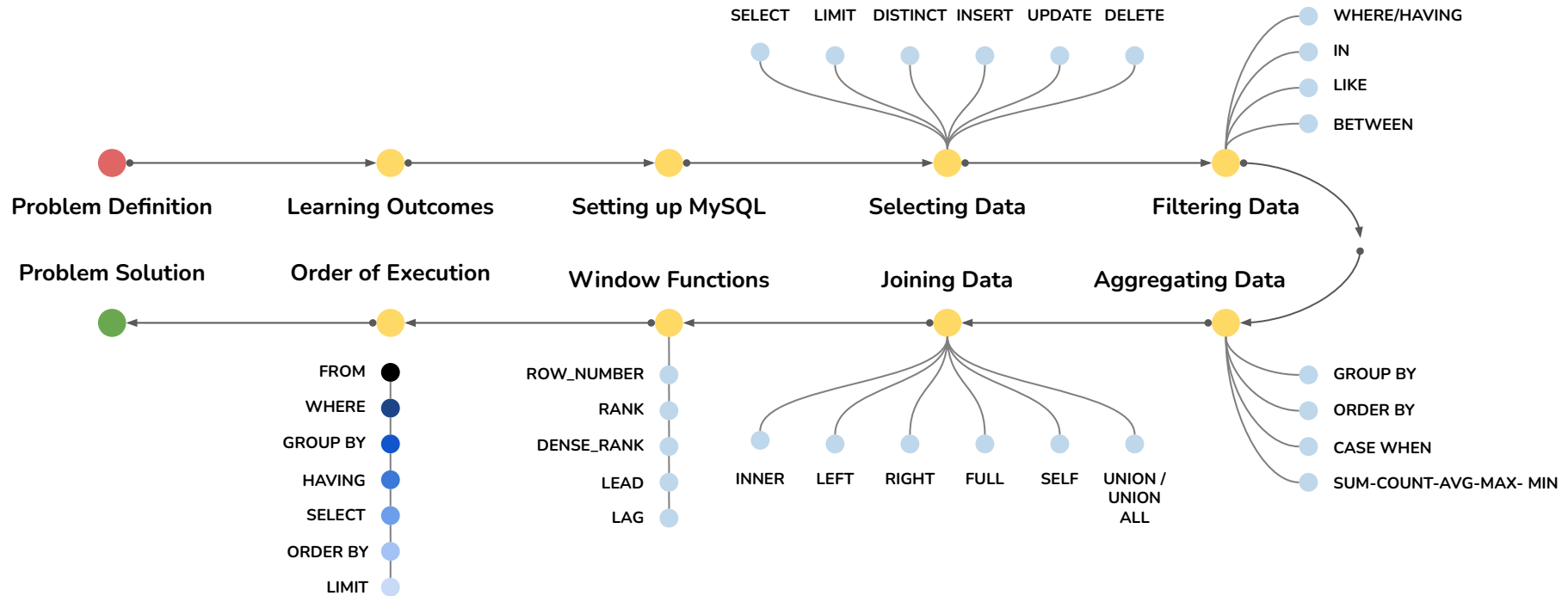
# Learning Journey



# Order of Execution in SQL



# Summary





**Happy Learning !**

