MySQL Workbench

Syllabus Overview

(Month One) SQL.

Week One	Week Two
Day 1 (Data Retrieval: Single Table) - ● **Import Dataset in MySQL** ● **SELECT, WHERE, DISTINCT, LIKE** ● **BETWEEN, IN, ORDER BY, LIMIT** ● **MIN, MAX, AVG, GROUP BY** ● **HAVING Clause** ● **IF, CASE, YEAR, CURYEAR**	**Day 1 (Complex Queries) -** ● **Subqueries** ● **ANY, ALL Operators** ● **Co-Related Subquery** ● **Common Table Expression**
Day 2 (Multiple Table) - ● **INNER, LEFT, RIGHT, FULL** ● **Cross Join** ● **Analytics on Tables** ● **Join More Than Two Tables**	**Day 2 (Database Creation) -** ● **Database Normalization** ● **Data Integrity** ● **Entity Relationship Diagram** ● **INT, DECIMAL, FLOAT, DOUBLE** ● **VARCHAR, CHAR, ENUM** ● **DATE, TIME, YEAR, TIMESTAMP** ● **Data Types: JSON, Spatial** ● **Primary Key** ● **Foreign Key**

Week Three	Week Four
Day 1 (Analytics I) - ● **User-Defined SQL Functions**	**Day 1 (Analytics II) -** ● **Database Triggers** ● **Database Events** ● **Forecast Accuracy Report** ● **Subquery vs CTE vs Views** ● **Database Indexes**
Day 2 (Window Functions) - ● **Database Views** ● **Window Functions** ● **ROW_NUMBER, DENSE_RANK**	**Day 2 (SQL Advance) -** ● **Relational vs No-SQL** ● **ETL** ● **Data Warehouse** ● **OLAP vs OLTP** ● **Data Catalog** ● **Fact vs Dimension Table** ● **Star vs Snowflake Schema** ● **Kanban**