**Course6: Databases and SQL for Data Science with Python**

**Course Overview**

**Week 1: Getting started with SQL**

This week will let you learn the basics of SQL and databases. You will also learn how to query tables in a database.

**Week 2: Introduction to relational Databases and Tables**

This week is all about relational databases, creating tables, and modifying their contents.

**Week 3: Intermediate SQL**

In this module, you will learn more about different types of SQL queries, functions, string patterns, grouping, and sorting.

**Week 4: Accessing databases with Python**

This week, you will learn the nuances of accessing databases using Python libraries and SQL magic in Jupyter Notebooks.

**Week 5: Course Assignment**

This week is designed to give you an understanding of how to deal with real-world datasets and complete an assignment which tests your skills acquired throughout the course.

**Week 6: Bonus Module: Advanced SQL for Data Engineers (Honors)**

In this additional module, you will learn how to apply advanced queries in SQL, like Views, Stored Procedures, and ACID transactions.

This course can be applied to multiple specializations or Professional Certificates programs. Completing this course will count towards your learning in any of the following programs:

* [Data Engineering Foundations Specialization](https://www.coursera.org/specializations/data-engineering-foundations)
* [IBM Data Analyst Professional Certificate](https://www.coursera.org/professional-certificates/ibm-data-analyst)
* [Data Science Fundamentals with Python and SQL Specialization](https://www.coursera.org/specializations/data-science-fundamentals-python-sql)
* [IBM Data Engineering Professional Certificate](https://www.coursera.org/professional-certificates/ibm-data-engineer)
* [Introduction to Data Science Specialization](https://www.coursera.org/specializations/introduction-data-science)
* [IBM Data Science Professional Certificate](https://www.coursera.org/professional-certificates/ibm-data-science)