COURSE DETAIL

DATABASES
Country United Kingdom - England
Host Institution London School of Economics
Program(s) London School of Economics
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Statistics
UCEAP Course Number 107
UCEAP Course Suffix
UCEAP Official Title DATABASES
UCEAP Transcript Title DATABASES
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course covers basic concepts of database management systems, including relational and other types of database management systems. The topics covered include basic concepts of the relational model, creating and modifying relations using Structured Query Language (SQL), basic SQL queries using SELECT operator, nested queries, aggregate operators such as GROUP BY, integrity constraints and relations, views, application development using JDBC, Internet protocols such as HTTP and XML, storage and indexing, tree-structured indexing using B+ trees, hash-based indexing, query evaluation and algorithms for relational operations, external sorting, transaction management and concurrency, database schema and normal forms, and overview of NoSQL databases such as key-value stores, document, and graph databases. The course demonstrates how various theoretical principles are implemented in practice in a database management system, such as MySQL, SQLite and PostgreSQL.

Language(s) of Instruction
English

Host Institution Course Number
ST207

Host Institution Course Title
DATABASES

Host Institution Course Details
https://www.lse.ac.uk/resources/calendar2022-2023/courseGuides/ST/2022_ST207.htm

Host Institution Campus
London School of Economics

Host Institution Faculty

Host Institution Degree

Host Institution Department
Statistics

Course Last Reviewed
2022-2023

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