COURSE DETAIL

INTRODUCTION TO DATABASES
Country United Kingdom - Scotland
Host Institution University of Edinburgh
Program(s) Scottish Universities,University of Edinburgh
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 108
UCEAP Course Suffix
UCEAP Official Title INTRODUCTION TO DATABASES
UCEAP Transcript Title INTRO TO DATABASES
UCEAP Quarter Units 8.00
UCEAP Semester Units 5.30

Course Description

Databases encompass many areas of computer science, from formal logic to programming languages, from operating systems to algorithms and data structures. This course covers in detail the main language for relational databases, SQL. It also cover the theoretical query languages on which SQL's core is based, namely relational algebra and relational calculus. Other important topics covered during the course include normal forms, transaction processing, concurrency control, incomplete data and rudiments of query optimization. Topics include the relational model and rudiments of SQL; query languages: relational algebra and calculus; multisets, grouping and aggregation; database design: constraints and normal forms; advanced SQL: nested queries, triggers, null values, transaction management: concurrent schedules, conflict-serializability, locking; database access from applications: using SQL in a host programming language; and basics of indexing, query evaluation and optimization.

Language(s) of Instruction
English

Host Institution Course Number
INFR10080

Host Institution Course Title
INTRODUCTION TO DATABASES

Host Institution Course Details

Host Institution Campus
Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department
Informatics

Course Last Reviewed

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