

TEACHING GUIDE - 2024-2025

Data analytics with SQL

UGRA_015704

| Departments Teaching Languages ECTS Teacher responsible Course Goals | Dept. of Operations, Innovation & Data Sciences English 4 Tarda Valls Jordi - jordi.tarda@esade.edu By the time the students finish the course, they should be able to : • Understand key concepts of relational database management systems • Understand the importance of database design through Entity-Relationship Diagrams and mode | |
|--|---|--|
| | Design and understand queries using Structured Query Language (SQL) Perform a real-world database design and implementation in MySQL | |
| Previous knowledge | No prior knowledge of databases is required for this course, but it is assumed that students are used to working with code editors. | |
| Prerequisits | This course does not require any prerequisites. | |
| Description | | |
| Course contribution to program | This course is essential for consolidating and expanding the knowledge acquired in prior areas such as computing and data programming. By providing a deep understanding of how to structure, store, and manage large volumes of data, this course is crucial for the development of advanced and efficient predictive models in artificial intelligence. It also facilitates the creation of compelling narratives through data visualization, ensuring quick and reliable access to relevant information. | |
| Short description | The primary purpose of this course is to provide students with a level of knowledge and skills that allow them to have a better understanding of how to manage and exploit data. Basic technical skills for the class covers database design and implementation: including entity-relationship modeling, normalization, structured query language and how to cretate and manipulate the information in a SQL Databases | |

Bibliography

Connolly, T. & Begg, C., Database Systems: A Practical Approach to Design, Implementation, and ManagementDatabase Systems: A Practical Approach to Design, Implementation, and Management, Pearson, 6th Edition (Book)

esade

Content

| # | Торіс |
|---|---|
| 1 | Structured Query Language - SQL - |
| 2 | Relational Database Conceptual Modeling |

Assessment

| Tool | Assessment tool | Category | Weight % |
|---------------------------|-------------------------------|---------------------------|----------|
| Quizzes/tests | Individual (in-class) quizzes | Retake and ordinary round | 20.00% |
| Group project | Teamwork – challenges | Retake and ordinary round | 30.00% |
| Written and/or oral exams | Final exam | Retake and ordinary round | 50.00% |

PROGRAMS

| B13-Exchange Program Bachelor of Business Administration (BBA) (Undergraduates: Business) |) |
|---|---|
| B13 Year 1 (Optative) | |

B13S-Exchange Program Bachelor of Business Administration (BBA) (Undergraduates: Business) B13S Year 1 (Optative)

BBA20-Bachelor of Business Administration (BBA) (Undergraduates: Business) BBA20 Year 2 (Optative)

BBA23-Bachelor of Business Administration (BBA) (Undergraduates: Business) BBA23 Year 2 (Optative)