

OD10985C: Introduction to SQL Databases SQL Server 2016 MOD

Course Details

Course Outline

1. Introduction to databases

- Introduction to relational databases
- Other types of database
- Data analysis
- Database languages
- **Lab : Querying SQL Server**

2. Data Modelling

- Data modelling
- ANSI/SPARC database model
- Entity relationship modelling
- **Lab : Entity relationship modelling**

3. Normalization

- Why normalize data?
- Normalization terms
- Levels of normalization
- Denormalization
- **Lab : Normalizing raw data**

4. Relationships

- Schema mapping
- Referential integrity
- **Lab : Designing relationships**

5. Performance

- Indexing
- Query performance
- Concurrency
- **Lab : Query performance**

6. Database Objects

- Tables
- Views
- Stored procedures
- Other database objects
- **Lab : Using SQL Server in a hybrid cloud**