Core

SQL

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| Duration: | 8 day interactive training and project-based course |
| **Purpose:** | This course and project introduces trainees to the theoretical requirements of databases and provides experience in manipulating data in databases.  The aim is to improve their confidence and skills in managing data. |
| Course designed for: | All trainees who enter into the FDM Academy training program. |
| **Topics and objectives:** | The key topics covered and what the trainee will be able to do at the end of the course:   * **Topics**   + Data modelling and ERDs   + DDL and DML   + Selecting and filtering   + Table joins   + Common data functions   + Aggregate functions   + Sub-queries and in-line views   + Constraints and triggers   + Query execution plans   + Introduction to PL/SQL * **Objectives**   + Describe what a database is and its major components   + Describe data modeling and good database design   + Explain what the three sub-sets of SQL are used for   + Create, alter and drop database tables   + Insert, update and delete data in database tables   + Display data from one or more tables   + Filter and manipulate data to produce reports   + Write complex queries to extract and process data |
| **Pre-requisites:** | None |
| **Learning methods:** | Trainer-led presentations, facilitation, group exercises, case studies, Q&A sessions |