



# 40364: Database Administration Fundamentals

**Duration: 3 Days**

**Method: Instructor-Led Training (ILT) | Live Online Training**

---

**Certification:** Microsoft Technology Associate (MTA): Database Fundamentals — **Exam:** 98-36: 4Database Fundamentals

---

## Course Description

In this course, participants will be introduced to database design and administration. They will gain an understanding of core database concepts, creation of database objects, manipulation of data, data storage, and administration of a database. This course also assists participants in preparation for the certification exam.

## Target Audience

This course is intended for:

- Business or IT professionals who need to understand core database concepts and how databases can be used to store, manipulate, and analyse data.

## Prerequisites

To attend this course, candidates must have:

- General office computer skills.

**NOTE:** Candidates who have basic knowledge of SQL database will benefit.

## Course Objectives

Upon successful completion of this course, attendees will be able to:

- Understand Core Database Concepts.
- Create Database Objects.
- Manipulate Data.
- Understand Data Storage.
- Administer a Database.



## Course Topics

### Module 1: Understanding Core Database Concepts

- Database Concepts
- Data Manipulation Language (DML)
- Data Definition Language (DDL)

### Module 2: Creating Database Objects

- Key Terms
- Data Types
- Creating and Using Tables
- Creating Views
- Creating Stored Procedures

### Module 3: Manipulating Data

- Using Queries to Select Data
- Using Queries to Insert Data
- Updating Data and Databases
- Deleting Data

### Module 4: Understanding Data Storage

- Normalizing a Database
- Primary, Foreign, and Composite Keys
- Clustered and Non-Clustered Indexes

### Module 5: Administering a Database

- Securing Databases
- Backing Up and Restoring Databases

## LABS INCLUDED

