

Unit 8: Databases

1. Relational data; defining tables

Learning objectives

- define a single-table database from given data storage requirements
- choose and specify suitable data types
- choose a suitable primary key for a database table

Introduction

- Read chapter 13 of the textbook

Discussion & learning items

Exercises

Further practice & resources

2. Identifying fields

Identifying field data types; identifying primary keys; identifying foreign keys

Learning objectives

Introduction

Discussion & learning items

Exercises

Further practice & resources

3. Creating a database

Create a database

Create a table

Create fields

Learning objectives

Introduction

Discussion & learning items

Exercises

Further practice & resources

4, 5, 6. Design queries with query-by-example grid

Learning objectives

- perform a query-by-example from given search criteria

Introduction

Discussion & learning items

Exercises

Further practice & resources

7, 8. Python integration of databases

Learning objectives

Introduction

Discussion & learning items

Exercises

Further practice & resources

9. Review

Learning objectives

Introduction

Discussion & learning items

Exercises

Further practice & resources

10. Quiz