

# Exercises 5

## Task 5.1 (10 points). The Employees v1

1. Use Mogwai ER Designer and SQL Workbench/J to create `dm_example` database described in the lecture notes.
2. Create a new view `EmployeesView` that contains name, age, position, and a department of each employee. When displayed, this view should yield data like this:

EMPLOYEE	AGE	POSITION	DEPARTMENT
John Smith	35	Director	Sales
Sam Wilson	28	Programmer	Sales
Jane Robinson	38	Accountant	Technical Support
Nick Brown	22	Programmer	Technical Support
Jane Robinson	38	Accountant	Marketing

EmployeesView



3. Write SQL statements to:
  - Print out all employees in the `Marketing` department.
  - Print out the number of employees in each department (department name, number of people).
  - Print out the names of accountants of age between 30 and 45 years.
4. Save your work as follows:
  1. The ER diagram as a screenshot `dm_example.png` and as a Mogwai model `dm_example.mxm`.
  2. The SQL query for creating `EmployeesView` as a text file `EmployeesView.sql`.
  3. The queries made on the step 3 as a text file `queries.sql`.

## Submission Instructions.

Place all saved files into a single archive `<your-student-ID>-ex3.zip` and upload it to the course Moodle.