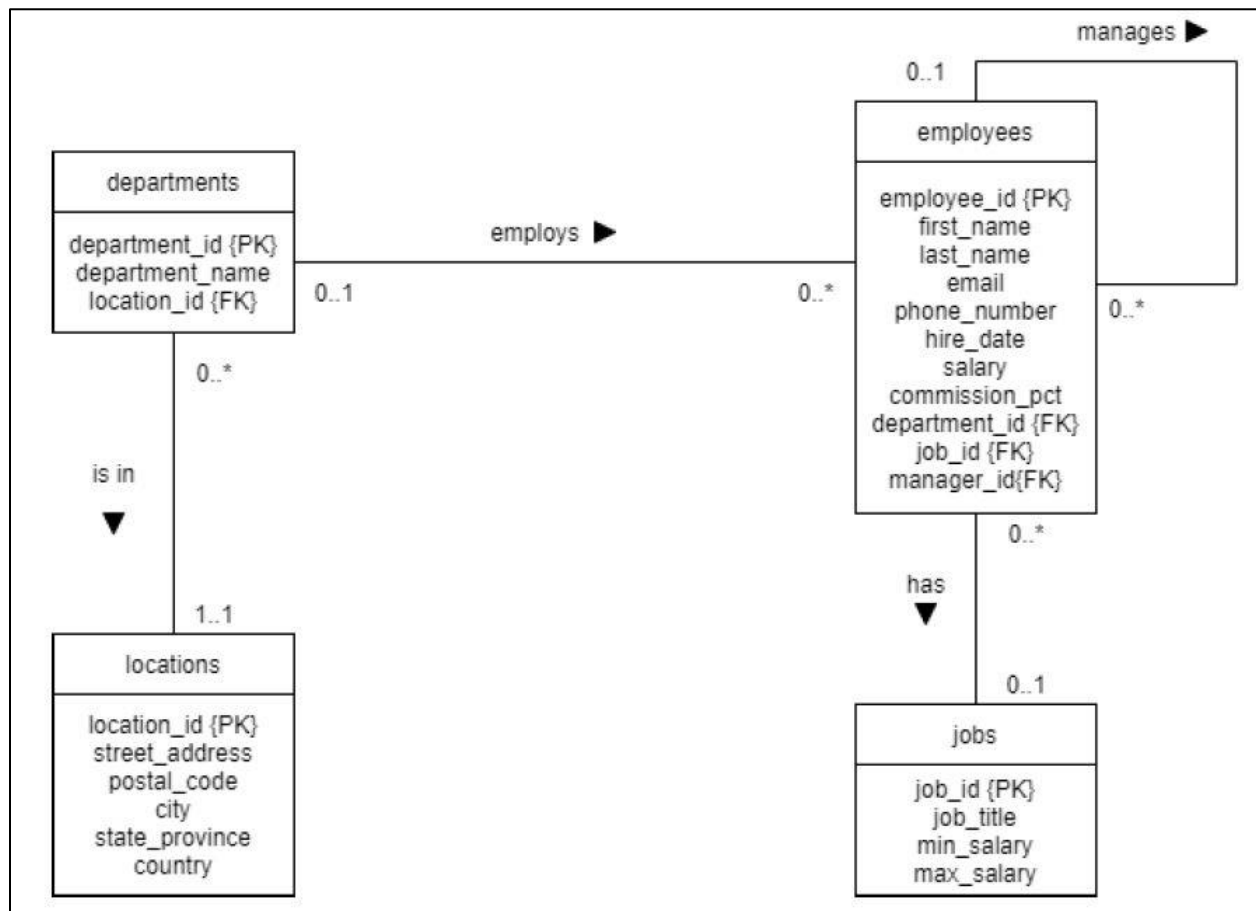


## CM1603 Database Systems

### Week 10

### Tutorial 8 – SQL DDL Queries

#### Exercise 1



Write the SQL Code to create the 4 tables **locations**, **departments**, **jobs**, and **employees** for the MySQL DBMS based on above relational schema. Make sure you start with the parent tables then move on to the children tables. Carefully think of the data type for every column, whether a column can be left empty or not and whether additional constraints need to be defined. Also, carefully define your primary keys and foreign keys.

## Exercise 2

For data insertion, copy and paste the given code in the SQL area of phpMyAdmin (second tab 'SQL') and run it by clicking on "Go".

## Exercise 3

- a) Write a simple SQL query to display the content of the employees table.
- b) Write a simple SQL query to display the employee number, last name, job code, hire date and department id for each employee.
- c) Create a query that displays the last name and salary of employees earning more than £45,000.
- d) Create a query that displays the last name, hire date and salary of employees hired after 1st January 2020.\*
- e) Create a report to display the last name, job id, and start date for the employees with the last names of Matos and Taylor. Order the query in ascending order by start date.