Data Centric Web Applications

# Lab 3 MySQL Data from multiple tables

## Part 1

* Get employee\_kin.sql from Moodle.

* Import it into MySQL as described in Lab 1 Exercises.

Diagram

Description automatically generated with medium confidence

**Question 1.1**

Display the Employee Name (in alphabetical order) and Next of Kin name of ALL employees.

Text

Description automatically generated

### Question 1.2

Display the Employee Name (in alphabetical order) and Next of Kin name only of employees who have a Next of Kin.

Text

Description automatically generated

### Question 1.3

Display the Employee ID as ‘Employee ID’ (in ascending order), the Employee Name as ‘Employee Name’ and the Employee Salary as ‘Employee Salary’ for all employees.

Text

Description automatically generated

### Question 1.4

Display the Employee Name as ‘Employee Name’ (in alphabetical order) and the Next of Kin’s phone number as ‘Emergency Contact’ only for employees with a Next of Kin.

Graphical user interface, text

Description automatically generated

### Question 1.5

Display the Next of Kin’s name as ‘NOK Name’ (in alphabetical order) and the salary of the associated employee as ‘Associated Salary’ for next of kins.

Text

Description automatically generated

### Question 1.6

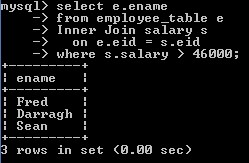
Display the Employee Name as ‘Employee’ (in alphabetical order), his salary as ‘Salary’, and his next of Kin’s phone number as ‘Emergency Contact’ for ALL employees.

Text

Description automatically generated

### Question 1.7

Rewrite the following query that uses Inner Joins as a Subquery.



**ANSWER:**

Text

Description automatically generated

### Question 1.8

Display the emp\_no, first\_name, last\_name, and birth\_date columns of employees whose year of birth is later than the average year of birth of all employees.

**???**

## Part 2

* Get employeesDB14.sql from Moodle.

* Import it into MySQL as described in Lab 1 Exercises.

### Question 2.1

Display the employee name as ‘Name’ and department location as ‘Location’ of the employee 7566.

Text

Description automatically generated

### Question 2.2

Display the name (in alphabetical order), job and hiredate of all employees in department 20.

Calendar

Description automatically generated

### Question 2.3

Display the employee number (in ascending order), employee name, job, department number and department location of all employees.

Text

Description automatically generated

Table

Description automatically generated

### Question 2.4

Show the empno (in ascending order), ename and sal for all employees in batches of 3 at a time.

**Text

Description automatically generated**

## Part 3

* Get studentDB3.sql from Moodle.

* Import it into MySQL as described in Lab 1 Exercises.

Diagram

Description automatically generated

### Question 3.1

Show the Student Name (in alphabetical order), and whether or not he/she attends an NUI university.

Text

Description automatically generated

### Question 3.2

Show college name (in alphabetical order) and the number of students attending each college as ‘Attending Students’.

**Text

Description automatically generated**

### Question 3.3

Show the college name (in alphabetical order) and the population of the county where the college is.

Text

Description automatically generated

### Question 3.4

Show the Student name (in alphabetical order), the course he/she is doing, the name of the college they are attending, and the main town and population of the county in which the college is.

Graphical user interface, text

Description automatically generated

### Question 3.5

Show the Names of students (in alphabetical order) doing the longest course:

Text

Description automatically generated