D3Data Centric Web Applications

# Lab 3 MySQL Data from multiple tables

Contents

Part 1 ....................................................................................................................................................... 3

Question 1.1 ........................................................................................................................................ 3

Question 1.2 ........................................................................................................................................ 3 Question 1.3 ........................................................................................................................................ 3

Question 1.4 ........................................................................................................................................ 3

Question 1.5 ........................................................................................................................................ 3 Question 1.6 ........................................................................................................................................ 3

Question 1.7 ........................................................................................................................................ 4

Question 1.8 ........................................................................................................................................ 4

Part 2 ....................................................................................................................................................... 5

Question 2.1 ........................................................................................................................................ 5 Question 2.2 ........................................................................................................................................ 5

Question 2.3 ........................................................................................................................................ 5

Question 2.4 ........................................................................................................................................ 5

Part 3 ....................................................................................................................................................... 6

Question 3.1 ........................................................................................................................................ 6

Question 3.2 ........................................................................................................................................ 6 Question 3.3 ........................................................................................................................................ 6

Question 3.4 ........................................................................................................................................ 6

Question 3.5 ........................................................................................................................................ 6

Part 4 ....................................................................................................................................................... 7

Question 4.1 ........................................................................................................................................ 7

## Part 1

* Get employee\_kin.sql from Moodle.

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

**Question 1.1**

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

select ename, NOK\_Name from employee\_table e

LEFT JOIN next\_of\_kin\_table n

ON e.NextOfKin = n.NOK\_id;

### Question 1.2

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

select ename, NOK\_Name from employee\_table e

LEFT JOIN next\_of\_kin\_table n

ON e.NextOfKin = n.NOK\_id

ORDER BY e.ename;

### 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.

### 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.

### Question 1.5

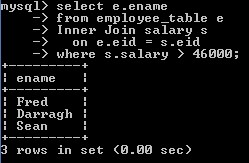
Display the Next of Kin’s name as ‘NOK Name’ (in alphabetical order) and the salary of the associated employee as ‘Associated Salary’ for next of kins.

### 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.

### Question 1.7

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



### Question 1.8

Display the eid, salary and a column called Level, which contains “Low” if a salary is less than the average salary, otherwise is blank.

## 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.

### Question 2.2

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

### Question 2.3

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

### Question 2.4

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

## Part 3

* Get studentDB3.sql from Moodle.

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

### Question 3.1

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

### Question 3.2

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

### Question 3.3

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

### 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.

**Question 3.5**

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

## Part 4

* Get employeesDB100.sql from Moodle (Lab 1).

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

### Question 4.1

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.