# Data Centric RAD

## Lab 4 MySQL Review II

### Part 1

* Get employee\_kin.sql from Moodle.
* Import it into MySQL as described in Lab 1 Exercises.

cd \wamp64\bin\mysql\mysql5.7.14\bin

mysql -u root -p < "C:\Users\martin\Desktop\employee\_kin.sql"

use employee\_kin;

* Display the Employee Name and Next of Kin name of ALL employees.

select e.ename, k.nok\_name

from employee\_table e

**Left** Join next\_of\_kin\_table k

on e.nextofkin = k.nok\_id;

* Display the Employee Name and Next of Kin name only of employees who have a Next of Kin.

select employee\_table.ename, next\_of\_kin\_table.nok\_name

from employee\_table

Inner Join next\_of\_kin\_table

on employee\_table.nextofkin = next\_of\_kin\_table.nok\_id;

or

select e.ename, k.nok\_name

from employee\_table e

Inner Join next\_of\_kin\_table k

On e.NextOfKin = k.Nok\_id;

* Display the Employee ID as ‘Employee ID’, the Employee Name as ‘Employee Name’ and the Employee Salary as ‘Employee Salary’ for all employees.

Select e.eid as Employee\_ID, e.ename as Employee\_Name, s.salary as Employee\_Salary

from employee\_table e

Inner Join salary s

On e.eid = s.eid;

* Display the Employee Name as ‘Employee Name’ and the Next of Kin’s phone number as ‘Emergency Contact’ only for employees with a Next of Kin.

Select e.ename as Employee\_Name, k.phone as Emergency\_Contact

from employee\_table e

Inner Join next\_of\_kin\_table k

On e.NextOfKin = k.NOK\_ID;

* Display the Next of Kin’s name as ‘NOK Name’ and the salary of the associated employee as ‘Associated Salary’ for next of kins.

Select k.NOK\_Name as NOK\_Name, s.salary as Associated\_Salary

from next\_of\_Kin\_table k

Inner Join employee\_table e

On k.NOK\_ID = e.NextOfKin

Inner Join salary s

On e.eid = s.eid;

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

Select e.ename as Employee, s.salary as Salary, k.phone as Emergency\_Contact

From employee\_table e

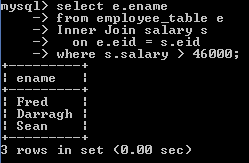
join next\_of\_Kin\_table k

On e.NextOfKin = k.NOK\_ID

join salary s

On s.eid = e.eid;

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



Select e.ename

From employee\_table e

Inner Join (

Select salary, eid

from salary

Where salary > 46000

) as s

On e.eid = s.eid;

# Part 2

* Get employeesDB14.sql from Moodle.
* Import it into MySQL as described in Lab 1 Exercises.

cd \wamp64\bin\mysql\mysql5.7.14\bin

mysql -u root -p < "C:\Users\martin\Desktop\employeesDB14.SQL";

use employeesDB14;

show tables;

show create table emp;

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

Select e.ENAME as Name, d.LOC as Location

From emp e

Inner join dept d

On e.deptno = d.deptno

Where empno = 7566;

* Display the name, job and hiredate of all employees in department 20.

Select ename, job, hiredate, deptno

From emp

Where deptno =20;

* Display the employee number, employee name, job, department number and department location of all employees.

Select e.empno, e.ename, e.job, e.deptno, d.loc

From emp e

Inner join dept d

On e.deptno = d.deptno;

* Display the Customer ID, Name, Address, City and State of all customers who bought the *RH: "GUIDE TO TENNIS"* product.

Select c.custid, c.name, c.address, c.city, c.state, p.prodid

From customer c

Inner join sales s

On c.custid =s.custid

Inner join product p

On s.prodid = p.prodid

Where p.prodid=102130;

### Part 3

* Get studentDB3.sql from Moodle.
* Import it into MySQL as described in Lab 1 Exercises.

cd \wamp64\bin\mysql\mysql5.7.14\bin

mysql -u root -p < "C:\Users\martin\Desktop\studentDB3.sql"

* Show the Student Name, and whether or not he/she attends an NUI university.

Select s.student\_name, col.nui

From student\_table s

Inner join course\_table c

On s.course\_id = c.course\_id

Inner join college\_table col

On c.college\_id = col.college\_id

Where nui =1;

* Show college name and the number of students attending each college as ‘Attending Students’.

Select col.college\_name, count(s.student\_id) as ‘Attending\_Student’

From student\_table s

Inner join course\_table c

On s.course\_id = c.course\_id

Inner join college\_table col

On c.college\_id = col.college\_id

Group by col.college\_name;

Flip query tables around for all info

* Show the college name and the population of the county where the college is.

Select col.college\_name, c.population

From college\_table col

Inner join county\_table c

On col.county = c.county\_name;

* Show the Student name, 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.

Select s.student\_name, c.course\_name, col.college\_name, co.population

From student\_table s

Inner join course\_table c

ON s.course\_id = c.course\_id

Inner join college\_table

On c.college\_id = col.college\_id

Inner join county\_table co

On On col.county = co.county\_name

Select s.student\_name, c.course\_name, col.college\_name, col.county, co.county\_name

From student\_table s

Inner join course\_table c

ON s.course\_id = c.course\_id

Inner join college\_table col

On c.college\_id = col.college\_id

Inner join county\_table co

On col.county = co.county\_name

* Show the Names of the students doing the longest course:

select select o.orderid, i.itemid

from

**Left** Join i

on o. = i.;

**Left** Join p

on e.nextofkin = k.nok\_id;

, p.prodid