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.
- use employee kin;
- Display the Employee Name and Next of Kin name of ALL employees.
 - SELECT et.ename, nk.NOK_Name FROM employee_table et LEFT JOIN next_of_kin_table nk on (et.NextOfKin = nk.NOK_ID);
- Display the Employee Name and Next of Kin name only of employees who have a Next of Kin.
 - SELECT et.ename, nk.NOK_Name FROM employee_table et INNER JOIN next_of_kin_table nk on (et.NextOfKin = nk.NOK_ID) WHERE et.NextOfKin IS NOT NULL
- Display the Employee ID as 'Employee ID', the Employee Name as 'Employee Name' and the Employee Salary as 'Employee Salary' for all employees.
 - SELECT et.eid as `Employee ID`, et.ename `Employee Name`, s.salary
 `Employee Salary` FROM employee_table et INNER JOIN salary s on (et.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 et.ename `Employee Name`, nk.phone `Emergency phone` FROM employee_table et INNER JOIN next_of_kin_table nk on (et.NextOfKin = nk.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 nk.NOK_Name `Employee Name`, s.salary `Assosiated Salary` FROM
 next_of_kin_table nk INNER JOIN employee_table et on (et.NextOfKin = nk.NOK_ID)
 join salary s on (s.eid = et.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 et.ename `Empoloyee`, s.salary `Salary`, nk.phone `Emergency Contact` FROM employee_table et JOIN salary s on (s.eid = et.eid)
 LEFT JOIN next_of_kin_table nk on (nk.NOK_ID = et.NextOfKin)
- Rewrite the following query that uses Inner Joins as a Subquery.

SELECT et.ename FROM employee_table et
 WHERE et.eid IN(SELECT s.eid from salary s where s.salary > 46000)

Part 2

- Get employeesDB14.sql from Moodle.
- Import it into MySQL as described in Lab 1 Exercises.
- use employeesDB14;
- Display the employee name as 'Name' and department location as 'Location' of the employee 7566.
 - SELECT e.ENAME `Name`, d.LOC `Location` from emp e join dept d on (e.DEPTNO = d.DEPTNO) where e.EMPNO = 7566;
- Display the name, job and hiredate of all employees in department 20.
 - SELECT e.ENAME `Name`, e.JOB, e.HIREDATE from emp e where e.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 JOIN dept d on d.DEPTNO = e.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 from customer c join ord o on (o.CUSTID = c.CUSTID)

WHERE o.ORDID IN(SELECT i.ORDID from item i JOIN product p on (i.PRODID = p.PRODID)

WHERE p.DESCRIP = 'RH: "GUIDE TO TENNIS"') group by c.CUSTID

Part 3

- Get studentDB3.sql from Moodle.
- Import it into MySQL as described in Lab 1 Exercises.
- Show the Student Name, and whether or not he/she attends an NUI university.

```
o SELECT st.student_name, co.college_name from
   student_table st LEFT JOIN course_table cot on
   (cot.course_ID = st.course_id)
   join college_table co on (co.college_id =
   cot.college id)
```

• Show college name and the number of students attending each college as 'Attending Students'.

```
o select cot.college_name, count(st.student_id) from
  college_table cot
  JOIN course_table co on (cot.college_id =
    co.college_id)
  JOIN student_table st on (st.course_id =
    co.course_ID)
  Group by cot.college id;
```

- Show the college name and the population of the county where the college is.
 - o SELECT co.college_name, cot.population `County
 Population` from college_table co
 join county table cot on cot.county name = co.county
- 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.

```
o SELECT s.student_name, co.course_name,
  cot.college_name, cty.main_town, cty.population from
  student_table s
  join course_table co on (co.course_ID = s.course_id)
  JOIN college_table cot on(co.college_id =
   cot.college_id)
  JOIN county_table cty on (cty.county_name =
  cot.county);
```

- Show the Names of the students doing the longest course:
 - SELECT s.student_name from student_table s
 join course_table co on (co.course_ID = s.course_id)
 WHERE co.course_ID IN(SELECT co.course_ID from course_table co having
 MAX(co.duration))