Class Project 1

Class Room ECES 112

Project Points: 10 points

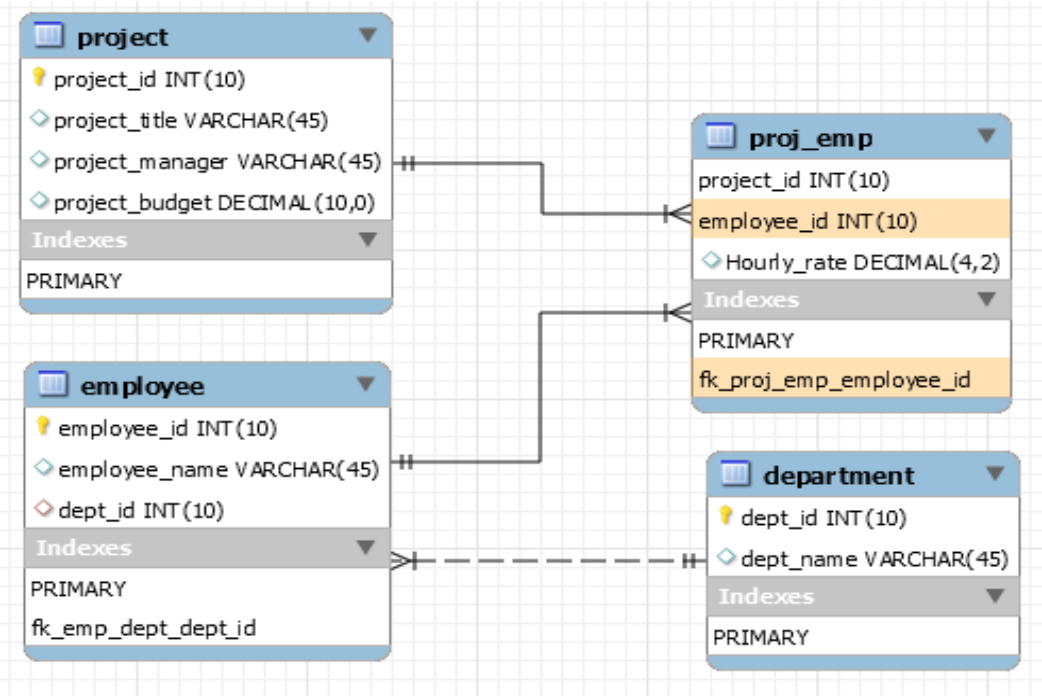
Tuesday 7/9/2019

Overview:

- This is a class room project 1 and worth 10 points (10%) towards your final grade.
- You will get 1 hour 30 minutes to complete this project, i.e. 5:00 pm - 6:30 pm.
- This is open book project and any kind of resource materials are allowed.
- Collaboration and consultation is NOT allowed. Do your own work.
- Save your results in a document (such as Excel, Word or similar tool) and submit your project in PDF on Canvas.
- You must submit **BOTH your SQL Script and your ANSWER SET** (unless otherwise specified). Some points will be given to cleaner coding, e.g. use of table aliases indentation, upper/lower case key words, etc.
- Please use **MySQL workbench** for this project.

This project will give you hands-on practice in working with MySQL Workbench to create a tables, insert data and working with those tables (DDL and DML).

There is DDL scripts file in Canvas under **Assignment: Class Project 1: DDL_DML.** Please download the file **"Class_Project_1_DDL.sql",** execute the script and it will create these 4 files: **project, department, employee and proj_emp**.



Section 1: Total Points: 3

Submit your Insert statements. Points will be giver for each insert statement and cleaner coding.

Write Insert statement to insert below data into their respective tables

USE Class_Project_1;

Project

project_id	project_title	project_manager	project_budget
1	Pension System	M Phillips	25500
2	Salary System	H Martin	15500
3	HR System	K Lewis	10500

Department

dept_id	dept_name
100	IT
101	HR
102	DB

employee

employee_id	employee_name	dept_id
200	A Smith	100
201	B Lewis	100
202	D Rich	101
203	E Ford	101
204	F James	102

proj_emp

project_id	employee_id	hourly_rate
1	200	25.00
1	201	18.50
1	202	21.00
2	203	20.00
2	204	17.00
3	201	17.50
3	202	16.25

Section 2: Total Points: 7

Submit both your SQL statement and result sets. Points will be giver for each SQL statement, result sets and cleaner coding. Make sure to use **table aliases on your table joins**.

NO use of **LIMIT** function on this project.

a. Display project_title, project_manager, project_budget, employee_name, dept_name and hourly_rate for ALL records (records that have matching values in all tables) and also sort by first 4 columns.

b. Display MAX hourly_rate per employee_name
(employee_name should be listed only once with his/her max hourly_rate)

e.g. this is just an example of output:

employee_name	max_hourly_rate
A	100
B	50
C	75

c. Display project_title, employee_name and project_budget for the LOWEST budgeted project only

e.g. this is just an example of output:

project_title	employee_name	project_budget
AD System	A	10000
AD System	B	10000

d. Display HIGHEST hourly_rate for an employee per department
(department should be listed only once with highest hourly_rate for an employee)

e.g. this is just an example of output:

employee_name	dept_name	hourly
A	DB	25
B	HR	18
C	IT	21

e. Display employee_name, dept_name, hourly_rate and rank by HIGHEST to LOWEST hourly_rate for an employee per department
(You are ranking per dept_name i.e. within a dept and your rank will reset from 1 for next dept)

e.g. this is just an example of output:

employee_name	dept_name	hourly	rnk
A	DB	10	1
B	IT	25	1
C	IT	20	2
B	IT	15	3
D	HR	50	1
D	HR	15	2
B	HR	15	3

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