

California State University, San Bernardino
School of Computer Science & Engineering
CSE572 W2020 – Database Systems
LAB 05 – Update, View and Trigger

The exercises below is using the database from Lab 04 and due by Thursday, February 20.

Create a file to record SQL queries, results and explanations on following questions. Upon the completion of lab works, convert the file to Assignment3.sql and submit to blackboard.

- 1 List all project names and manager names in charge projects.
- 2 Calculate total hours to all projects based on each employee.
- 3 Suppose there are 408 work hours per year, create a view to display employee hourly rate.
- 4 Find out the total labor cost per employee, per project.
- 5 Alter the table employees and add column to store date of birth and hire date. Update the table with the provided data.
- 6 Create a new table named emp_proj_overtime which have three columns of

EMP_PROJ_O VERTIME		(empNo, projNo)	Details of the hours worked by the employee on each project
	empNo		Unique id, format 9999
	projNo		Unique id, format 9999
	hourOt		Number of overtime hours spent by the employee in the project

- 7 Assume each employee has a cap of 100 hours per project, develop a trigger to track overtime hours when employee exceed the cap for the project.
- 8 If the overtime pay is twice of regular hourly rate, modify the query from question 4 and add the factor of overtime.

Updated Employee Data

empNo	DOB	Hire_date
1000	04/30/1995	05/01/2010
1007	12/31/1986	01/02/2018
2002	07/12/1964	10/15/2014
1760	02/28/1976	06/15/2009
1740	09/10/1990	09/02/2011
2060	06/25/1980	04/01/2013
2000	05/05/1999	08/01/2019
1444	01/24/1993	07/15/2012