



University of West Attica

Department of Informatics and Computer Engineering

Databases I

Task 1: Create and manage a database, create a database model

Create base new_personnel

Create the new_personnel database, with the following tables and their data, as shown here:

DEPT

DEPTNO	DNAME	LOC
10	ACCOUNTING	ATHENS
20	SALES	LONDON
30	RESEARCH	ATHENS
40	PAYROLL	LONDON

EMP

EMPNO	ENAME	JOB	HIREDATE	MGR	SAL	COMM	DEPTNO
10	CODD	ANALYST	1/1/89	15	3000		10
15	ELMASRI	ANALYST	2/5/95	15	1200	150	10
20	NAVATHE	SALESMAN	7/7/77	20	2000		20
30	DATE	PROGRAMMER	4/5/04	15	1800	200	10

PROJ

PROJ_CODE	DESCRIPTION
100	PAYROLL
200	PERSONNEL
300	SALES

ASSIGN

EMPNO	PROJ_CODE	A_TIME
10	100	40
10	200	60
15	100	100
20	200	100
30	100	100

Questions

Commands via command line mode

1. Record the commands to create the DB, the tables and the data entry commands, as well as all the commands required to verify their execution (select, describe, etc.)
2. Capture the image of your tables as they appear on base (structure and data)

Using the MySQL Workbench software

3. Use the MySQL Workbench software to build the model (Entity-Relationship diagram) for the new_personnel database. Save the model through the application to an image type file (model_01.png).
4. Then through the MySQL Workbench software, make the following changes to the model (Entity-Relationship diagram) of the new_personnel database:
 - i. Create a new field in the EMP entity named ADDRESS and type VARCHAR maximum number of characters 50.
 - ii. Change the LOC field of the DEPT entity to a maximum number VARCHAR 30 characters.
 - iii. Create a new TASK entity with fields TASK_CODE of type INT, DESCRIPTION of type VARCHAR with a maximum number of 20 characters.
 - iv. Create a 1:N relationship between TASK and PROJ (with auto creating a PROJ_CODE field of type INT in the TASK entity).
5. Then save the modified model through the application to an image type file (model_02.png).

The commands for questions 1 and 2 and the results of their execution, to be written in a text file (e.g. in notepad++ or alternatively in a doc file). The results of executing queries 3 through 5 are the output of the files model_01.png and model_02.png.

Compress all the above files into a zip file, name it AM_LastName, (eg 12345_Christos_Christou.txt) and submit it.

The submission will be made in the corresponding area of the course in the e-class, in the **Assignments** option .