

W 20_COMP 122 - Assignment 1

Due Date: Midnight of Feb 08, 2020 (Saturday)

Purpose: The purpose of this assignment is to help you:

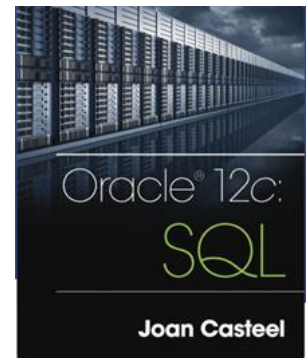
- Basic of Database, ER Modelling, Database creation

Instructions: Be sure to read the following general instructions carefully:

This assignment should be completed individually by all the students. You are encouraged to demonstrate your solution during lab session and submit your solution through the drobox. You must name your submission according to the following rule: studentID(yourlastname)_ASSnumber.zip. e.g., **300123456(smith)_ASS#1.zip**

Question 1 (5 mark)

Create an initial database design (E-R model) of City Jail from *Joan Casteel - Oracle 12c*, page 45.



Question 2 (5 mark)

1. Create a new table called **CATEGORY**. The columns should be **CatCode** and **CatDesc**. The **CatCode** column should store a maximum of 2 characters, and the **CatDesc** column should store a maximum of 10 characters.
2. Create a new table called **EMPLOYEES** containing four columns: **Emp#**, **Lastname**, **Firstname**, and **Job_class**. The **Job_class** column should be able to store character strings up to a maximum length of four, but the column values shouldn't be padded if the value has less than four characters. The **Emp#** column contains a numeric ID and should allow a five-digit number. Use column sizes you consider suitable for the **Firstname** and **Lastname** columns.

3. Add two columns to the **EMPLOYEES** table. One column, named **EmpDate**, contains the date of employment for each employee, and its default value should be the system date. The second column, named **EndDate**, contains employees' date of termination.
4. Modify the **Job_class** column of the **EMPLOYEES** table so that it allows storing a maximum width of two characters.
5. Delete the **EndDate** column from the **EMPLOYEES** table.
6. Rename the **EMPLOYEES** table as **JL_EMPS**.
7. Create a new table called **BOOKS**: **ISBN**, **Cost**, **Retail**, and **Category**. Name the
8. Rename the new table **BOOK_PRICING**.
9. Mark the **Category** column of the **BOOK_PRICING** table as unused. Verify that the column is no longer available. Add some data into **BOOK_PRICING** table.
10. Truncate the **BOOK_PRICING** table, and then verify that the table still exists but no longer contains any data.
11. Delete the **BOOK_PRICING** table permanently so that it isn't moved to the recycle bin.

Note:

Q1 - E-R model

Q2 - Take snapshots of your commands and results and post them in the same docx file.