

Assignment # 2

ITEC3220 M, N

Winter 2021

Due Date: March 14, 2021 23:00

This is an individual assignment. You are not allowed to work in groups.

Create logical schema using Oracle DBMS on School of ITEC Teaching Server based on ERD provided. You are to:

- create required tables with attributes corresponding to the ERD;
- specify the primary key and foreign keys (if such exist) for each table;
- implement additional integrity constraints described below;
- create a file holding CREATE TABLE statements and execute the statements from the file using @ SQLPLUS command;
- record your session on Oracle 11g DBMS using SQLPlus spool command;
- You are NOT allowed to use ALTER TABLE statements to add integrity constraints. All constraints are to be defined in CREATE TABLE statements.

Please note that ERD for this assignment is different from the solution to Assignment # 1

The following additional integrity constraints MUST be implemented:

1. When a record about a tour operator is removed from the database, the records about Airlines associated with this tour operator must also be removed from the database.
2. When a record about a tour operator's representative who supervised other representatives is removed from the database, the records about subordinate representatives must remain in the database.
3. Domain of attribute Category (Room entity set) contains only three values: 'standard', 'luxury' and 'executive'.
4. Domain of attribute Fee (Service entity set) contains numbers between 0 and 200.
5. Domain of attribute Nbed (Room entity set) contains integer numbers 1, 2, and 3.

SUBMIT:

1. Printout of your recorded session or sessions in Oracle 11 g on SIT Teaching Server. The printout is to demonstrate the execution of your **SQL statements from the file**.
2. Please make sure that all SQL statements are shown on the printout (spool file). Please convert the printout into a PDF file.

3. You ARE NOT allowed to modify spool file. Any changes in the spool file will result in 0 mark for the assignment.
4. If you submit SQL statements you cannot explain, you WILL receive zero.
5. Tables created **MUST be kept** in your Oracle account until your assignment will be graded. If you submit the assignment, but tables do not exist in our database on SIT Teaching Server, your mark will be 0. You will be informed when you may drop the tables.

GENERAL INSTRUCTIONS

- ERD is implemented using Chen notation.
- Each capital letter (like M, N, *etc.*) means "many".
- Assign reasonable data types for table fields.
- You are not allowed to modify the ERD.