

## Database System Design

CPE 450

### Task 2

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1. Create a table named "Customer". The table should include the attributes (Customer\_ID, First\_name, Last\_name). The Customer\_ID is string that can be at most 10 characters long and its **not null** , the names are strings that can be at most 20 characters long

**Alter** the table as the following:

- a. Make the Customer\_ID attribute a primary key, and name the constraint Customer\_ID\_PK.
- b. Make the first name unique, and name the constraint Customer\_Fname\_UNQ.
- c. Add column gender which is a single character.
- d. Add a constraint to check that the value for gender is either 'M' or 'F', and name the constraint Customer\_Gender\_CHK.
- e. Add column phone that can be at most 10 characters long
- f. Add a default value constraint for the phone to be UNKNOWN by default, and name the constraint Customer\_Phone\_DEF.
- g. drop the constraint Customer\_Fname\_UNQ
- h. change the size of phone column from 10 to 20.

suppose that there is a relationship between "Customer" table and "Ordering" table .

create Order table which has include the attributes (Ordering\_ID, Ordering\_date, Customer\_ID)

**through creating table** make Ordering\_ID attribute has a primary key, and name the constraint Ordering\_ID\_PK.

Ordering\_date has a date datatype

Customer\_ID has a foreign key references from "Customer" table Customer\_ID column and name the constraint Customer\_Ordering\_PK.