**ITEC 3200**

**Student Worksheet**

You will work with another student to complete this assignment. Please list the name of the student you worked with. Each student will upload a copy of the assignment to d2l and this will account towards the class assignment grade. Please ensure to save a copy of the assignment for your reference and preparation for the quiz. After you complete the assignment, we will discuss answers in class. All students need to upload the completed assignment prior to the end of class time to obtain class assignment points.

Student Name:

Student Name

1. The database life cycle involves **Requirements Gathering**, **Analysis,** **Logical design**, **Implementation**, **Realizing the Design** and **Populating the database.**

Match the following to the appropriate stage in the database life cycle

1. Creating the database tables /DDL -
2. Entering data in to tables -
3. Surveying customers to examine needs for the database-
4. Security Enforcement
5. Create E.R Model
6. Obtain detailed description of data

Identify Maximum and Minimum Cardinality

1. A product is supplied by one supplier. A supplier can supply many products. A product needs to have a supplier and a supplier needs to supply at least one product to exist as a supplier.

What is the maximum cardinality in the direction from product to supplier?

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What is the maximum cardinality in the direction from supplier to product?

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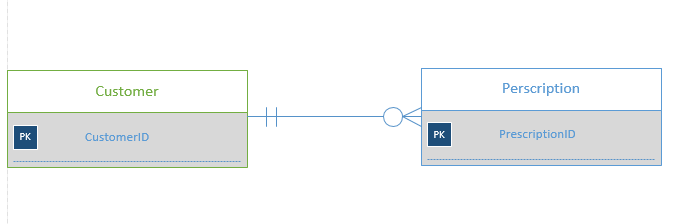
What is the minimum cardinality in the direction from product to supplier?

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What is the minimum cardinality in the direction from supplier to product?

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1. For the relationship shown below, identify the cardinalities and placement of foreign keys



Maximum Cardinality of Prescription:

Maximum Cardinality of Customer:

Interpretation of maximum cardinality

Minimum Cardinality of Prescription:

Minimum Cardinality of Customer:

Interpretation of minimum cardinality

In relating customer and prescription, which table should the foreign key be placed in and why?

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