Practice Exercise

This document provides a list of exercises to be practiced by learners. Please raise a feedback in Talent Next, should you have any queries.

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Note: Every Problem Statement start in a new page

Problem Statement 1: Enlist Entities and Attributes.

Introduction

Consider a “Mega Mart” Retail Store application where the customer will be purchasing the items from the retail outlet. The supplier will place the quotation to the retail store from whom items are bought. The order will be placed by the retailer. The retail outlet will be maintaining the employee, customer and the items bought by the customer.

1. All the details pertaining to Retail application are stored in the form of relations.
2. Few of the relations mentioned below,
3. item: details of the items being sold in the retail store.
4. supplier: details of the suppliers from whom items are bought to the retail store.
5. quotation: details of the quotations placed by the suppliers.
6. supplierorder: details of the orders placed for suppliers.
7. retailoutlet: details of the various retail outlets.
8. employee: details of employees working for the retail outlet.
9. customer: details of the customers who buy items from retail outlets.
10. address: details of the address.

Review all the Entities and its attributes for Mega Mart application

Problem Statement 2: Identify the candidate key, primary key and foreign keys for the above relation.

This is a continuation of the previous problem statement, solve the below sub-problems with respect to problem statement 1:

1. Identify and create the Entities.
2. Identify the attributes and their datatypes.
3. Identify the candidate key, primary key and foreign keys for the above Entity.
4. Identify the operations of Entity

Problem Statement 3: Draw Class Diagrams for Entities

This is a continuation of the previous problem statement, solve the below sub-problems with respect to problem statement 2:

1. Draw the Class Diagram for Entities