

CIS-552: DATABASE DESIGN

Submitted by – Yashika Patil (02115374)

Lab 1: Part – 1

We created an ER schema for mail_order database that includes customers placing orders, employees taking those orders and the process of making and passing those orders to ensure smooth flow of orders. The entire process is recorded in the form of database and in this part we draw an ER diagram with hand to visualize the ER schema.

The order processing system has the following entities:

1. EMPLOYEES
2. CUSTOMERS
3. PARTS
4. ORDERS

The relationships are described as follows:

1. Employees and Orders - One-to-Many: An employee takes multiple orders, and each order is taken by a single employee.
2. Customers and Orders – One-to-Many: A customer places multiple orders, and each order is placed by a single customer.
3. Orders and Parts – Many-to-Many: An order contains multiple parts, and each part can be part of multiple orders.

The entities are represented by rectangles, attributes by ovals, and the relationships by diamonds in the diagram below:

