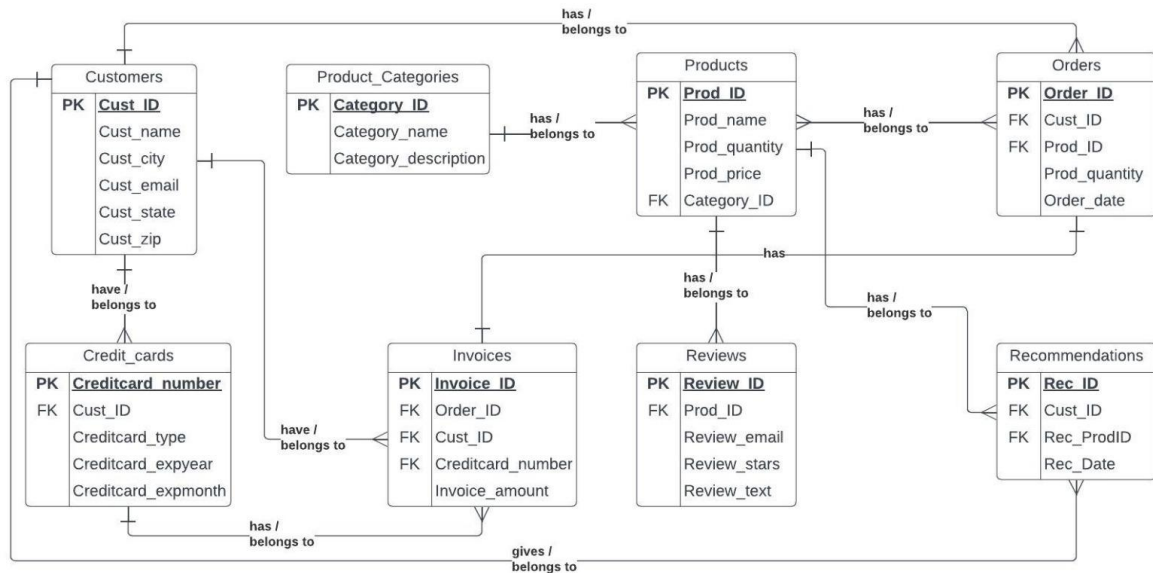# IS 620 Final Project

Team: Mavericks

ERD Diagram:

Explanation:

The above ERD diagram shows the relationship between different entities:

Between Customers and Orders: One to Many

A customer can place many orders, but each order can only be placed by one customer.

Between Customers and Credit_cards: One to Many

Each customer can have many credit cards, but each credit card can only be associated with one customer.

Between Customers and Invoices: One to Many

A customer can have many invoices, but each invoice belongs to only one customer.

Between Customers and Recommendations: One to Many

Each customer can have many recommendations, but a recommendation belongs to only one customer.

Between Credit_cards and Invoices: One to Many

A credit card may belong to many invoices, but an invoice can only be associated with one credit card (A credit card may be used to place many orders (order generates an invoice), but each order can only be paid by 1 card).

Between Product_categories and products: One to many

A category may have many products under it, but each product belongs to only one category.

Between Invoices and Orders: One to One

Each order generates only one invoice and each invoice belongs to only one particular order.

Between Products and Orders: Many to Many

A product may be ordered multiple times and an order may contain multiple products.

Between Products and Reviews: One to Many

A product may have multiple reviews, but a particular review belongs to only one product.

Between Products and Recommendations: One to Many

A product may be recommended multiple times to different customers, but a recommendation shows only one product.