

CSCI 466 - Databases
Northern Illinois University

Group Project - Section One
Bob's Pets and Supplies Store Webpage

Created by:
David Petrovski
Isabelle Coletti
Amanda Zedwick

Table of Contents

[Explanations:](#)

[Relational Schema:](#)

Explanations:

Notes: **Bold** items are entities

Italicized items are relationships

Underlined items are attributes

Employee:

Attribute(s):

EmpID: Primary key, the **Employee**'s ID and login username.

Name: The **Employee**'s name.

Password: The **Employee**'s password for logging in.

Relationship(s):

Processes: The relationship between **Employee** and **Order**, where an **Employee** has access to **Orders** to process them.

Order:

Attribute(s):

OrderID: Primary key, the **Order**'s unique ID.

Status: The status of the **Order** (not placed, received, shipped).

Total: The total amount of money paid for the **Order**.

TrackingNum: A tracking number assigned to the **Order** for the **Customer** to view their **Order** status.

Address: The address the **Order** is being shipped to.

Notes: Notes an **Employee** adds to the **Order** after shipping it.

Relationship(s):

Processes: The relationship between **Employee** and **Order**, where an **Employee** has access to **Orders** to process them.

Puts into Cart: The relationship between **Product**, **Customer**, and **Order**, where a **Customer** stores a **Product** to be placed as an **Order** at a later date.

[Attribute(s): Amount: The amount of each **Product** the **Customer** is adding to their cart.]

Makes: A given **Customer** can have many **Orders**.

Product:

Attribute(s):

ProductID: The primary key for the **Product**, used to identify it.

Name: The name of the **Product**.

Price: How much the **Product** costs.

Quantity: How many of the **Product** is in stock.

Relationship(s):

Puts into Cart: The relationship between **Product**, **Customer**, and **Order**, where a **Customer** stores a **Product** to be placed as an **Order** at a later date.

[Attribute(s): Amount: The amount of each **Product** the **Customer** is adding to their cart.]

Customer:

Attribute(s):

Username: Primary key and the customer's username and unique id.

Email: The **Customer**'s email.

Name: The **Customer**'s name.

Password: The **Customer**'s password for logging into their account.

Relationship(s):

Puts into Cart: The relationship between **Product**, **Customer**, and **Order**, where a **Customer** stores a **Product** to be placed as an **Order** at a later date.

[Attribute(s): Amount: The amount of each **Product** the **Customer** is adding to their cart.]

Makes: A given **Customer** can have many **Orders**.

Relational Schema:

*Notes: * means foreign key*

Employees(EmpID, Name, Password)

Orders(OrderID, Status, TrackingNum, Notes, Address, Total, EmpID*, Username*)
→ EmpID from **Employees**, Username from **Customers**

Products(ProductID, Name, Price, Quantity)

Customers(Username, Password, Name, Email)

Carts(OrderID*, ProductID*, Username*, Amount)
→ Username from **Customers**; ProductID from **Products**, OrderID from **Orders**