URL:
http://flip1.engr.oregonstate.edu:9082
NOTES:

- connect to the OSU vpn or OSU wifi
- Run app.js with port 9082 open
- Due to foreign key constraints, deleting entities with are referenced by foreign key in other entities will cause the server to crash (eg. deleting a customer that has made orders)

Portfolio Assignment

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Team Name: CS340

Project Title: Digital Marketing Database

a) Summary

Feedbacks	Changes
Step 2: Database outline missing one attribute	Added a M:M relationship to database outline
Step 2: Datatype needed to be fixed	Corrected data type such as decimal and bigint
Step 2: Missing a M:M relationship in the schema and ERD	Added a M:M relationship to our ERD and schema
Step 3: No search/filtering function on our website	Added a filter input box to customers, orders, and product html page
Step 4: Only had the data definition query, missing data definition query.sql	Added INSERT, SELECT, UPDATE, and DELETE for the ddq.sql
Step 5: Only had the html framework	Modified our web server from html pages to handlebars
Step 5: web browser and server do not have actual web applications	Implemented web application using javascript and connected to our handlebar files
Step 5: web server does not connect to the database	Used the COE flip server to connect our web browser with the database
Step 6: only implemented Create and Read	Added the delete, update, and filter functionality

b) Project Outline:

A game publisher markets client's digital releases to consumers who have purchased digital products from these clients' companies. These products include games, skin purchases, and other downloadable content packs / extension packs. The publisher needs a way to filter each client's transactional dataset to choose which of their customers are ideal to send emails and texts to in order to market the clients' new digital releases. The publisher would also like to keep track of what products are frequently bought together to improve sales accuracy/marketing relevance. The publisher expects their current game development studio client to have at least 20,000 'Customers' in the first year for the client's first game (Product), which will be released with 3 downloadable content packs (also Products). A database driven website will record their current client's sales Orders of Products to Customers for every digital transaction, such that the game publisher can query the database to send emails to customers who would have registered their contact info, providing permission to receive emails and/or texts when the client releases new and relevant products.

b) Database Outline, in Words:

- Customers: *records information which identifies purchasing entities and their contact information. These are the customers of the client our publishing company is marketing games for. These customers are people who have bought games before or simply registered their contact information.*
  Purpose: *this information is useful for the publishing company to reach out through consumer's various contact information as part of the publisher marketing campaign*
    - customerId: int, auto_increment, unique, not NULL, PK
    - email: string, not NULL
    - cell: bigint
    - firstName: string
    - lastName: string
    - Relationship: a 1:M relationship between Customers and Orders with customerId as FK in each order

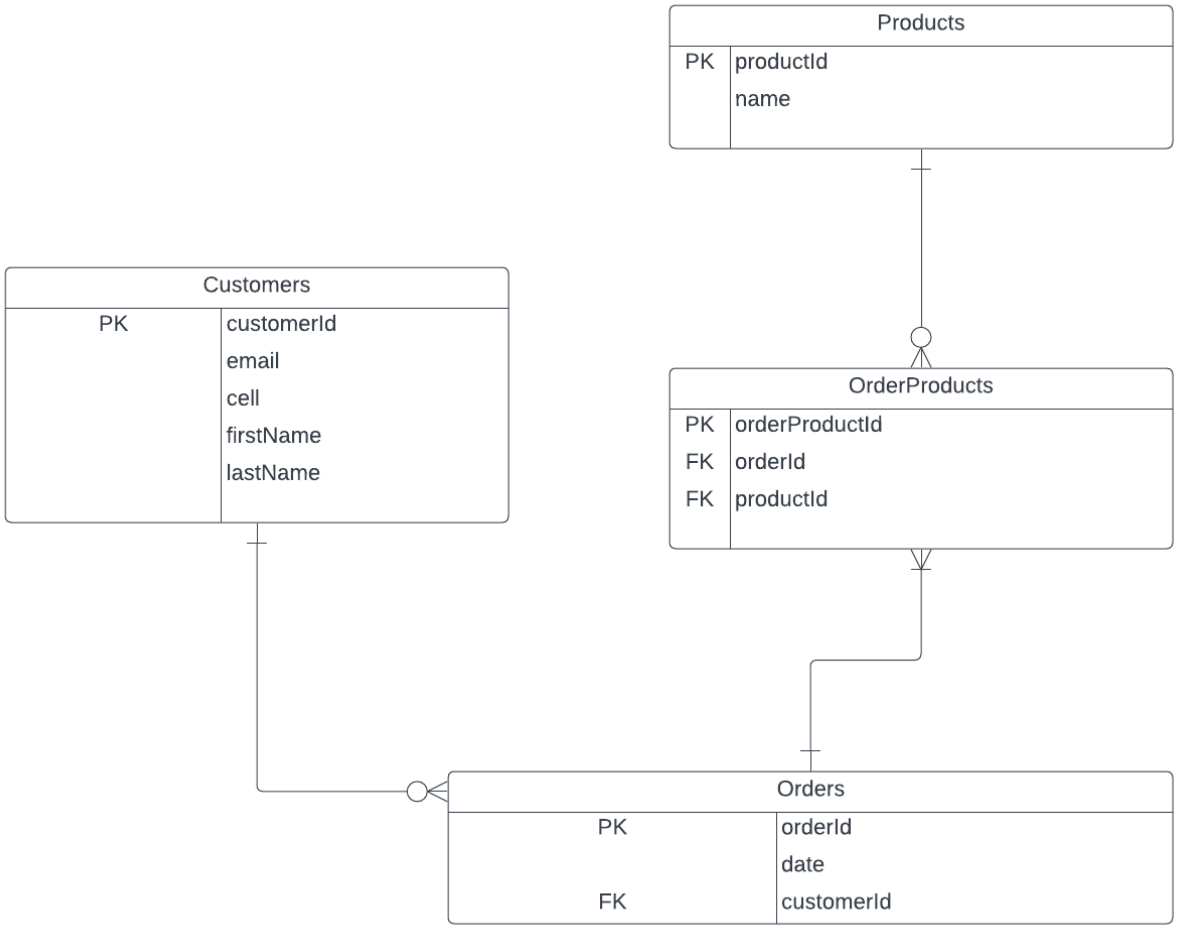
- Orders: *records information which identifies customer's fulfilled transactions.*
  Purpose: *This is useful for grouping products together so that our publishing company can analyze which products are frequently bought together, and which customers can be linked to these products.*
    - orderId: int, auto_increment, unique, not NULL, PK
    - customerId: FK
    - Relationship: a M:M relationship between Orders and Products via OrderProducts

- Products: *records information which identifies the unique digital units sold to customers*
  Purpose: *Represent digital content to assist game publishers in creating marketing campaigns based on customer's purchased goods. Provide useful information for queries such as price and name*

    - productId: int, auto_increment, unique, not NULL, PK
    - name: string, not NULL
    - price: decimal, not NULL
    - Relationship: defined above in Orders

- OrderProducts: *Represents the linkage between Orders and products by providing a M:M relationship between Orders and Products*
  Purpose: *to compose the relationship between orders and products such that each order can have multiple products and each product can have multiple orders*
    - orderProductId: concatenation of orderId and productId, unique, not NULL, PK, unique
    - orderId: FK
    - productId: FK
    - Relationship: This table composes the relationship between orders and products

c) ERD


Products
PK
productId
name
Customers
PK
customerId
email
cell
firstName
lastName
OrderProducts
PK
orderProductId
FK
orderId
FK
productId
Orders
PK
orderId
date
FK
customerId

d) Schema

Customers

customerId: int(9), auto-increment, primary key
email: varchar(255)
cell: int(10)
firstName: varchar(255)
lastName: varchar(255)

Orders

orderId: int(11), auto-increment, primary key
customerId: int (9), foreign key to Customers.customerId

Products

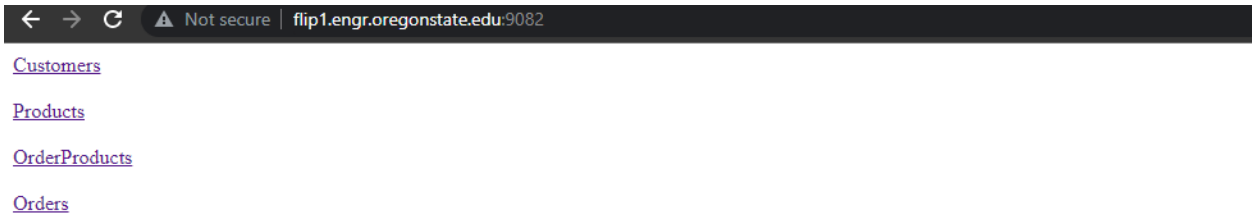
productId: int(11), primary key
name: varchar(255)
price: dec(unsigned)

OrderProducts

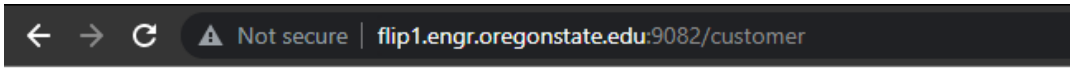
orderProductId: int(11), primary key
orderId: int(11), foreign key to Orders.orderId
productId: int(11), foreignkey to Products.productId

e) ScreenShots:

Start page: select table



CREATE/UPDATE/DELETE/FILTER/READ Customers page



Create Customer

First name:
Email:
Last name:
Cell:
Submit

Update Customer

Customer ID:
First name:
Email:
Last name:
Cell:
Submit

Delete Customer

Customer ID:
Submit

Filter Customer

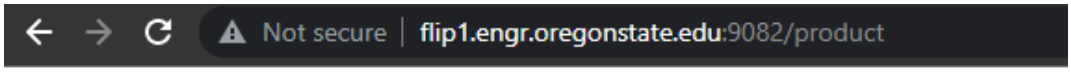
Last name:
Submit

Current Customers

customerId	email	cell	firstName	lastName
1	hello@gmail.com	541777444	John	Oranu
2	hello@gmail.com	534777444	Mike	Oranu
3	hello@gmail.com	541342444	Peter	Hemsworth

Refresh
Back to main menu

CREATE/UPDATE/DELETE/FILTER/READ Products page



Create Product

Name:
Price:
Submit

Update Product

ProductID:
Name:
Price:
Submit

Delete Product

ProductID:
Submit

Filter Product

ProductID:
Submit

Current products:

ProductID	Name	Price
1	survival game	22.99
2	horror game	33.99
3	racing game	44.99

Back
Back to main menu

CREATE/UPDATE/DELETE/FILTER/READ Orders page

Create Order

Customer ID:
Submit

Update Order

Order ID:
Customer ID:
Submit

Delete Order

Order ID:
Submit

Filter Order

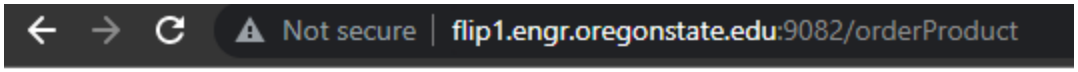
Customer ID:
Submit

Current Orders

orderId	customerId
1	1
2	2
3	3

Refresh
Back to main menu

CREATE/UPDATE/DELETE/FILTER/READ OrderProducts page



Create OrderProduct

Product ID:
Order ID:
Submit

Delete OrderProduct

OrderProduct ID:
Submit

Current OrderProducts:

OrderProductId	OrderId	ProductId
1	1	1
2	2	2
3	3	3

Refresh
Back to main menu