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Professor Dong  
CS 329 – Intro to DBMS  
Project Ideas

1. Restaurant Database System

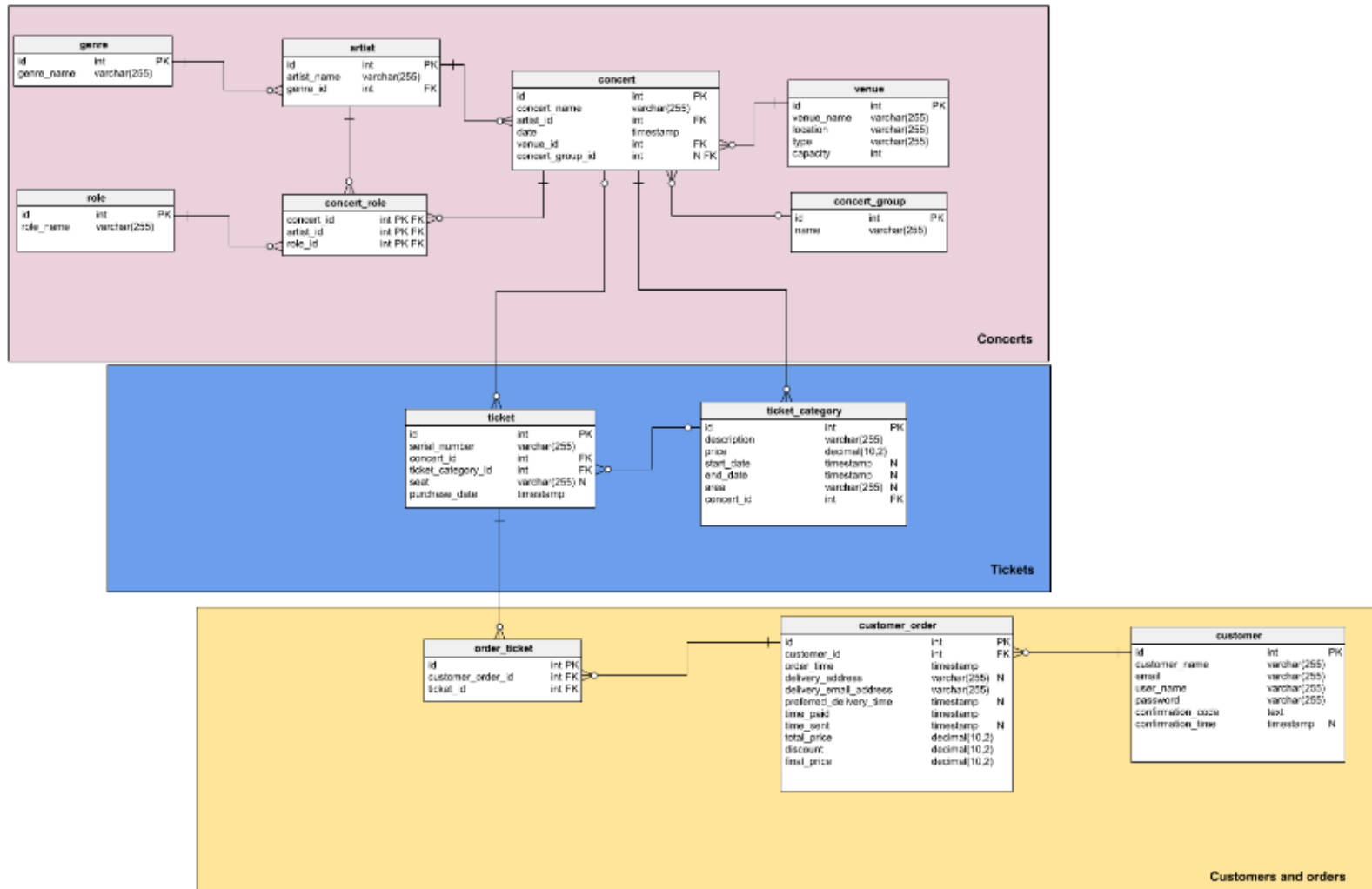
a. Entities:

- i. Employee
- ii. Restaurant Owner
- iii. Customer
- iv. Order
- v. Inventory
- vi. Menu Items
- vii. Reservation
- viii. Reviews
- ix. Supplier
- x. Food Recall
- xi. Discount
- xii.

2. Concert Ticket Database System

a. Entities:

- i.



### 3. Library Database System

#### a. Entities:

i.

### 4. Ecommerce Database System

#### a. Entities:

i.

Our team, consisting of members Chriss, Elijah, and Nathaniel, wants to take the company TicketTracker from traditional paper to database. We plan to use Structured Query Language (SQL) with the help of Google Cloud to create a user-friendly web application for the company to use. The purpose of the web application is for the company to track, collect, and manage concert venues and artists. We want the DBMS to track sales information, manage performing artists for various concert venues, and provide detailed customer data preferences through an assortment of queries. The company can use the data found from queries to see what genre performs the best, which artist is most popular by customer age range, and what time of the year concert tickets sell the most.

The DBMS will track Genres (Genre Identification Number, Genre Name), Concert (Concert Identification Number, Artist Identification Number, Concert Date, Venue Identification Number), Artist (Artist Identification Number, Name of the Artist, Genre Id), Ticket (Ticket ID, Concert ID, Seat, Purchase Date), Ticket Category (Category ID,

Description, Price, Artist, Concert ID), Customer Order (Customer Order ID, Customer ID, Delivery Address, Email, Date, Price, Discount, Final Price), Customer (Customer ID, Customer Name, Email, Phone Number, Confirmation Code), and Merchandiser (Merchandiser ID, name, address, products), and Merch (Order ID, product ID, price, discount, total price). These are just a rough idea of the entities that might be used in this DBMS.