

Coco Music Productions

You are working for the Coco Music Production company, who wants to open a new music venue located in New York City. You can call this music venue the CMP. The music company wants to sell tickets to university students directly rather than through a third-party service, like Ticketmaster. You are part of the team defining the data requirements for their web service.

Coco Music Production's plan is to take credit cards for payment and to create a customer loyalty program for those customers who want to take advantage of it. The customer loyalty program will track each visit the customer makes to the CMP and will give them a free ticket to an upcoming show for every 5 tickets they buy. The CMP also wants to use the customers' email addresses to advertise upcoming shows.

Your job is to define the logical data elements that must be kept for each customer in the CMP's database.

Use what you know about credit card sales and customer loyalty programs to do the following:

1. Identify all the data entities that the CMP database will need in order to collect the correct amount of data.
2. For each entity, identify all the attributes that must be collected. Include information about each entity's type, range if any, default value, and special requirements.
3. Indicate the relationships between the different entities (i.e. every person can only attend one show at a time).