

Class Diagrams - Review Questions

The ABC Theatres Ltd is one of the leading theatre groups in this country. Different shows are organized by this group throughout the year. The seats in the theatre are divided into sections and the ticket price for a seat in each section for different shows may vary. When a ticket is purchased, customers are presented with the show schedule from which they can pick a show. Then the prices of seats per section for that show are shown to the customer. If customer wishes to go ahead with the purchase, he/she can choose available seats from a box plan. When customer chooses the required number of seats from a preferred location. He/she is presented with the Total amount. Payments can be made by cash or by credit card. The customers can purchase a ticket for lower price if they are paying by certain credit cards and hence, marked price and the purchased price of a ticket may vary. Once the payment is done, the purchasing is completed. The details of the purchase, payment information and the customer information are stored. Then the customer is issued with the tickets for the show. A single purchase is for a particular show and if the customer wishes to pay (a) ticket(s) for another show, then a new purchase will be created. There can be multiple purchases for the same seat for different schedules.

- a) Assume you are a System Analyst and identify classes in his first iteration for this scenario.
- b) You are required to draw the relationships and indicate multiplicity between the above classes on the class diagram.