Lab # 5
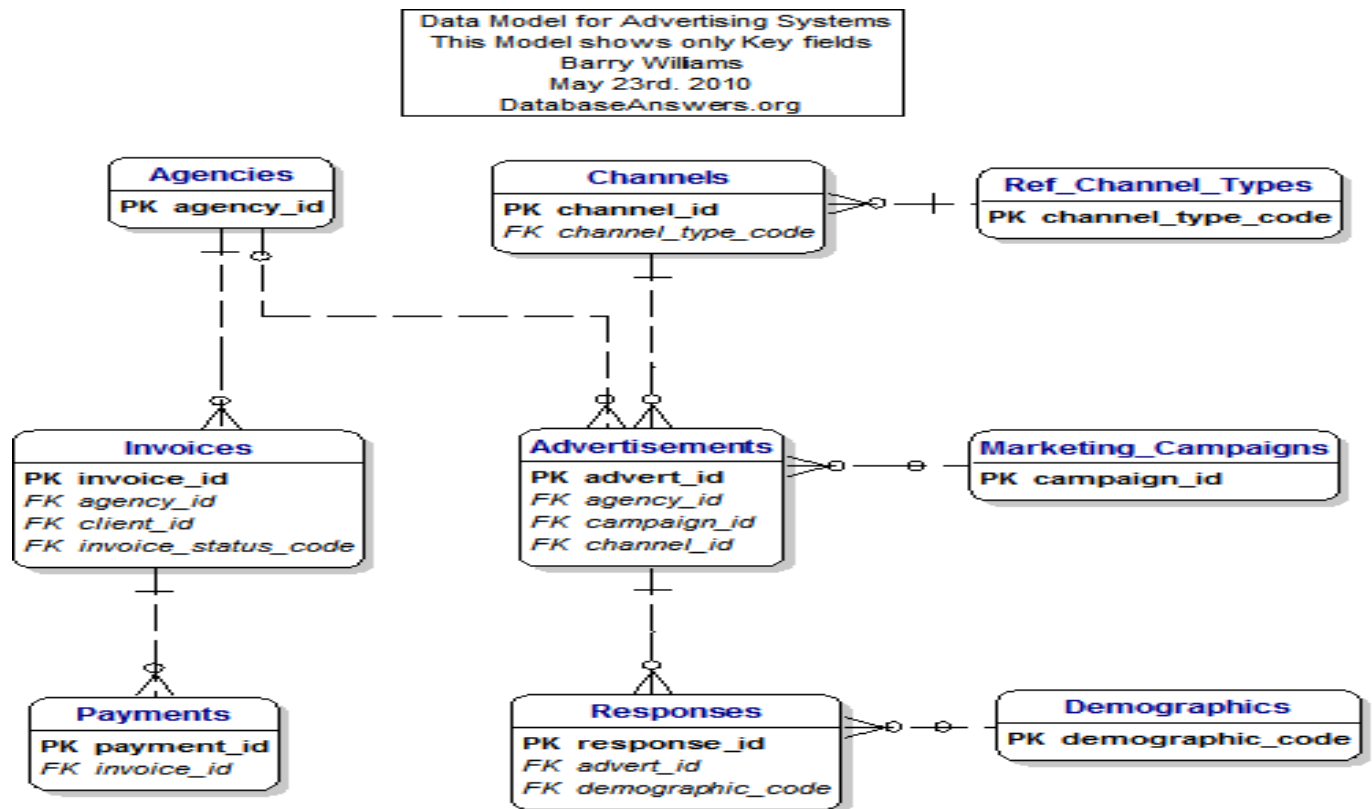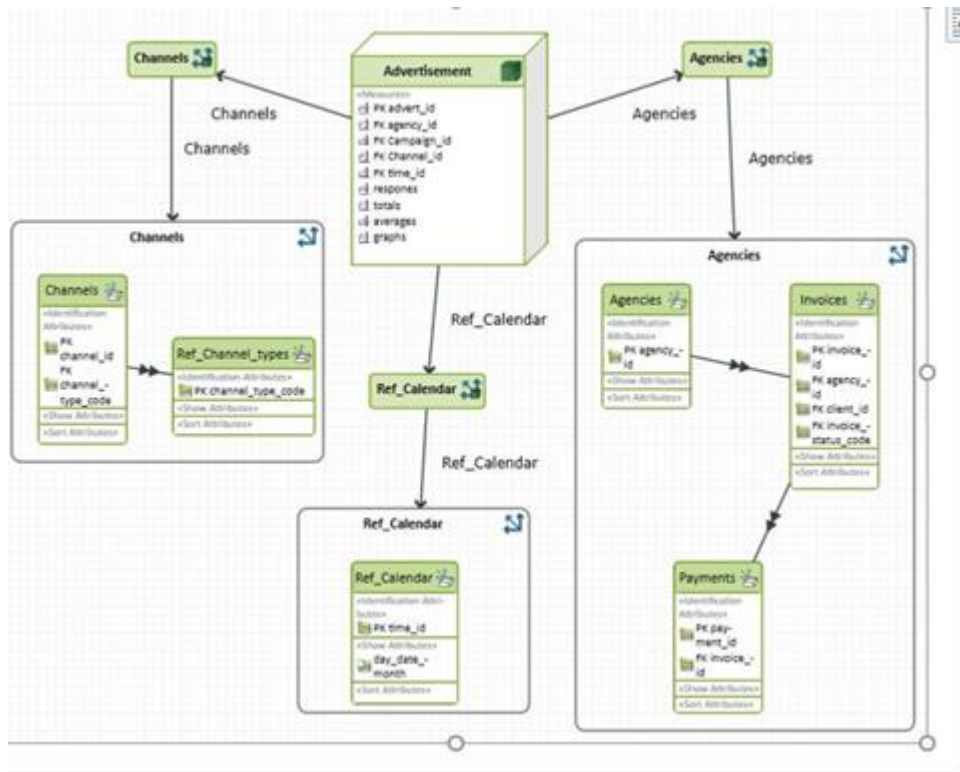
Draw M/ERDs for the following scenarios represented by ERDs and business rules to ease your task.
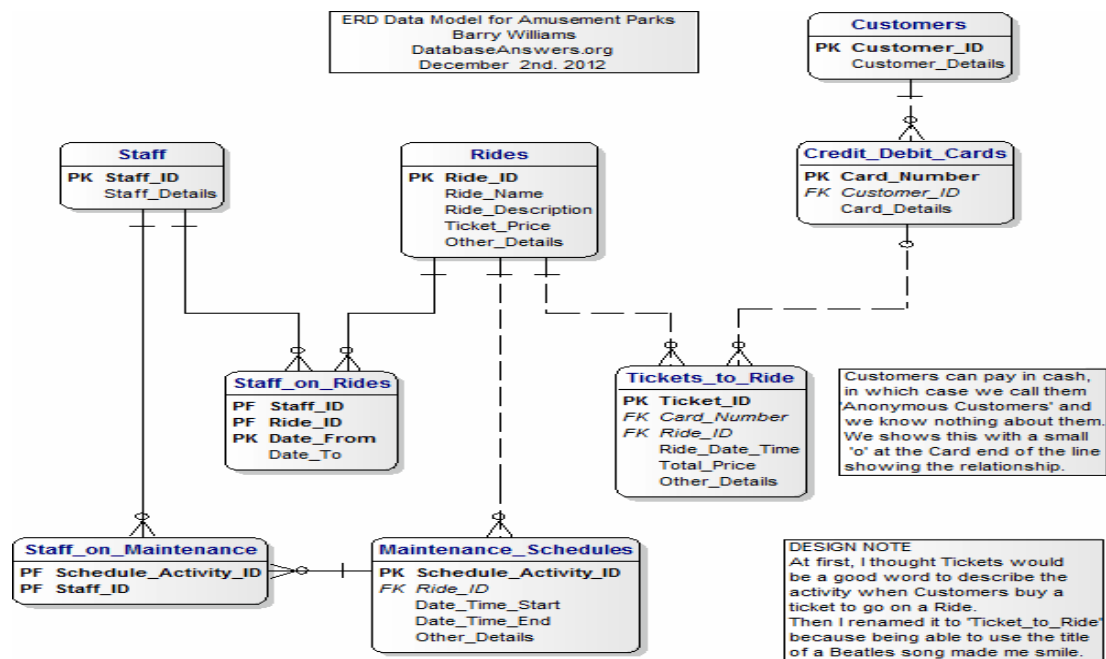
- Scenario 1: Advertising

Business Rules

1. Advertisements are placed by Agencies.

2. Advertisements are placed by Channels, such as TV or Print.

3. Advertisements can be part of a Marketing Campaign.

4. Invoices are produced and result in Payments.

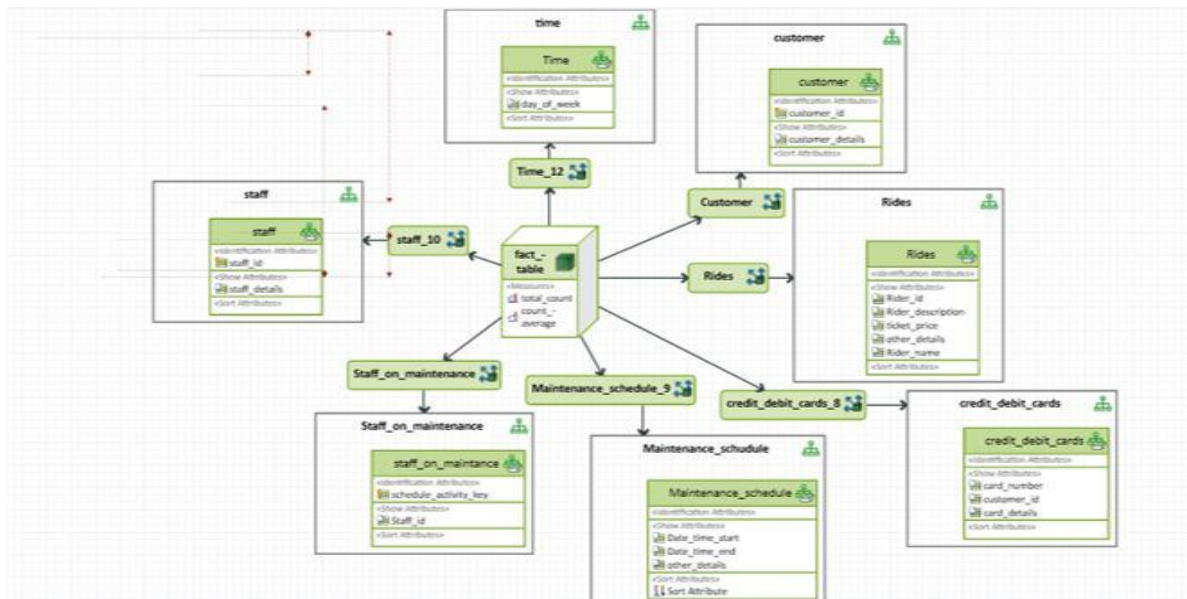5. Advertisements result in Responses.
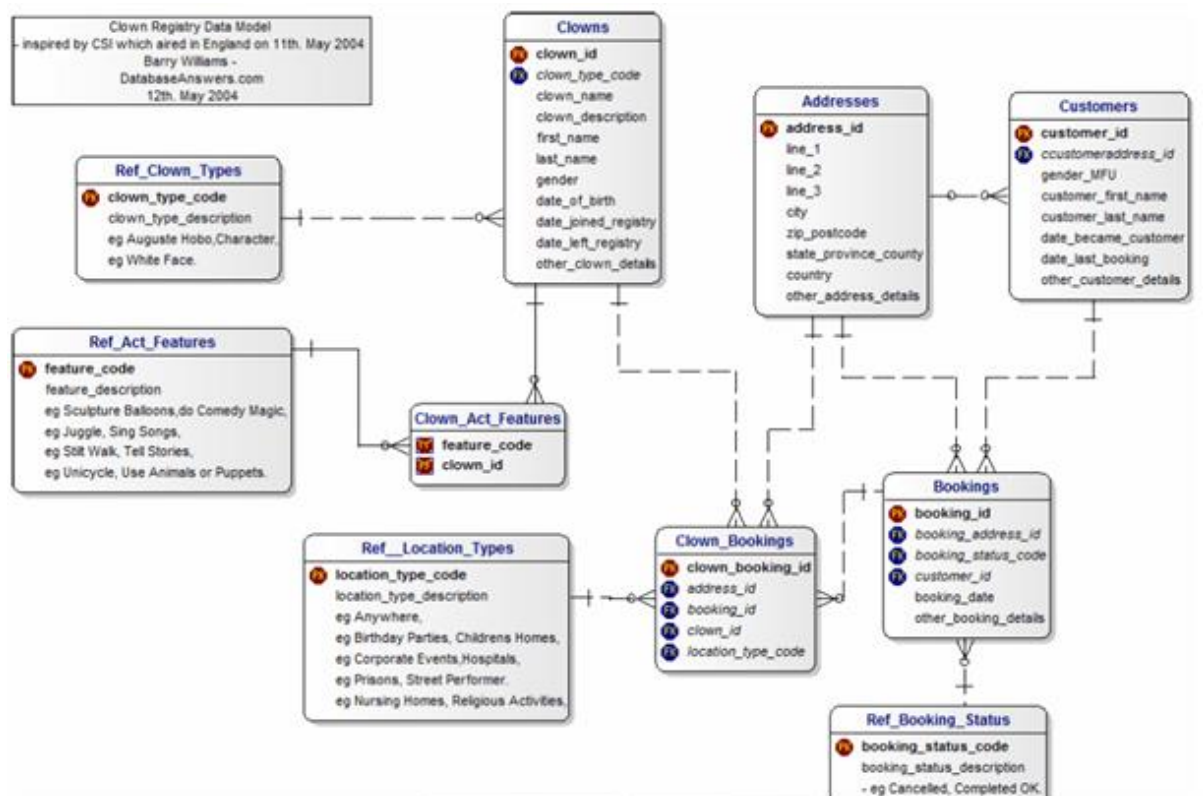
- Scenario 2: Amusement Parks

ERD Data Model for Amusement Parks
Barry Williams
DatabaseAnswers.org
December 2nd. 2012

Customers
PK	Customer_ID
	Customer_Details

Staff
PK	Staff_ID
	Staff_Details

Rides
PK	Ride_ID
	Ride_Name
	Ride_Description
	Ticket_Price
	Other_Details

Credit_Debit_Cards
PK	Card_Number
FK	Customer_ID
	Card_Details

Staff_on_Rides
PF	Staff_ID
PF	Ride_ID
PK	Date_From
	Date_To

Tickets_to_Ride
PK	Ticket_ID
FK	Card_Number
FK	Ride_ID
	Ride_Date_Time
	Total_Price
	Other_Details

Customers can pay in cash, in which case we call them 'Anonymous Customers' and we know nothing about them. We shows this with a small 'o' at the Card end of the line showing the relationship.

Staff_on_Maintenance
PF	Schedule_Activity_ID
PF	Staff_ID

Maintenance_Schedules
PK	Schedule_Activity_ID
FK	Ride_ID
	Date_Time_Start
	Date_Time_End
	Other_Details

DESIGN NOTE
At first, I thought Tickets would be a good word to describe the activity when Customers buy a ticket to go on a Ride.
Then I renamed it to 'Ticket_to_Ride' because being able to use the title of a Beatles song made me smile.

Business Rules

1. Rides are available.

2. Customers use Credit or Debit Cards to buy Tickets to Ride.

3. Staff operate the Rides.

4. Staff also work on Maintenance Schedules for the Rides.

- Scenario 3: Clown registry

Business Rules

1. People registered as Clowns are stored in the Clowns Table.

2. A Clown can have Acts with specific Features.

3. Clowns accept Bookings to perform at specific Locations for specific Customers.