

## **Physical Model Description**

**By  
John Hays**

My physical model was constructed as a mapping from a source model to a target model. For the source model I chose an Entity Relationship Diagram of a car. For the target model I chose a movie theater.

The ERD of the car consisted of four states. The central state was the car itself, and had four attributes: color, year, model, and price. To the left of the car entity was the dealer entity, which was related to the car entity by “sell”, or the fact that a dealer sells a car. To the right of the car entity was the manufacturer entity, which was related to the car entity by “manufacture”, or the fact that a manufacturer manufactures a car. Below the car entity was the buyer entity, which was related to the car entity by “buys”, or the fact that a buyer buys a car.

The movie theater target model consisted of a central main lobby connected to two smaller lobbies and a ticket booth. The main lobby also had four theaters connected to it. The other lobbies and the ticket booth were connected by hallways. All of the main areas had movie posters on the walls that identified the mappings back to the source model.

The ticket booth mapped back to the buyer since it said “ticket buyer’s booth”. The hallway from the ticket booth to the main lobby mapped to the “buys” relationship through the fact that it had a poster for the movie “Snatch”. The main lobby mapped back to the car entity since it

contained posters for the movies “Dude, Where’s My Car”, and “Gone In 60 Seconds”, which deals with cars. The theaters mapped to the car attributes since they contained pictures of the movies “2001”, which mapped to year, “Blue”, which mapped to color, “The Five Pennies”, which mapped to price, and “Corvette Summer”, which mapped to model.

The left lobby mapped to the dealer entity, since it had posters that played on the stereotype of a car dealer, such as “Petty Criminals” and “Say Anything”. The hallway from the left lobby mapped to the relationship “sells”, since it had the words “movie sells out” written on the wall. The right lobby mapped to the manufacturer entity since it had posters for the showing of “Manufacturing Consent – Noam Chomsky and the Media”. The hallway from the right lobby mapped to the relationship “manufactures”, since it had the words “Universal Manufactures All the Hits” written on the wall.

Thus, the movie theater mapped quite well to the car ERD.

