Larissa Hahn Assignment 3 – Relational Algebra August 2<sup>,</sup> 2015

1. Select the make\_name and model\_name of all vehicles which have a first production year of 1976.

2. Select the make\_name and model\_name of all vehicles with the color name Blue.

3. Select the make\_name, model\_name, and incentive amount for all vehicles with a dealer type incentive.

4. Convert the following query to relational algebra.

5. Covert your relational algebra query from problem 3 into a SQL query.

SELECT Make.make\_name, Model.model\_name, Incentive.amount FROM
Make INNER JOIN Vehicle ON Make.make\_id = Vehicle.fk\_make\_id
INNER JOIN Model ON Model.model\_id = Vehicle.fk\_model\_id
INNER JOIN Vehicle\_Incentive ON Vehicle.vehicle\_id = Vehicle\_Incentive.fk\_vehicle.id
INNER JOIN Incentive ON Vehicle\_Incentive.fk\_incentive\_id = Incentive.incentive\_id
WHERE Incentive.type = 'dealer'