Connor Shields

CS 340

Homework 3

1.

π make\_name, model\_name (σ first\_production\_year = '1986' (Model ⨝ Model.model\_id = Vehicle.fk\_model\_id (Make ⨝ Make.make\_id = Vehicle.fk\_make\_id (Vehicle))))

2.

π Model.model\_name, Make.make\_name (σ Color.name = 'Sky Blue' (Color ⨝ Color.color\_id = Inventory.fk\_color\_id (Inventory ⨝ Inventory.fk\_vehicle\_id = Vehicle.vehicle\_id (Make ⨝ Make.make\_id = Vehicle.fk\_make\_id (Vehicle ⨝ Vehicle.fk\_model\_id = Model.model\_id (Model))))))

3.

π Model.model\_name, Make.make\_name, Incentive.amount (σ Incentive.type = 'dealer' (Incentive ⨝ Incentive.incentive\_id = Vehicle\_Incentive.fk\_incentive\_id (Vehicle\_Incentive ⨝ Vehicle\_Incentive.fk\_vehicle\_id = Vehicle.vehicle\_id (Make ⨝ Make.make\_id = Vehicle.fk\_make\_id (Vehicle ⨝ Vehicle.fk\_model\_id = Model.model\_id (Model))))))

4.

π Player.id, Team.name, City.name (σ Player.score = 100 (City ⨝ Team.city\_id = City.id (Team ⨝ Player.team\_id = Team.id (Player))))

5.

SELECT DISTINCT Model.model\_name, Make.make\_name, Incentive.amount FROM Model

INNER JOIN Vehicle ON Vehicle.fk\_model\_id = Model.model\_id

INNER JOIN Make ON Make.make\_id = Vehicle.fk\_make\_id

INNER JOIN Vehicle\_Incentive ON Vehicle\_Incentive.fk\_vehicle\_id = Vehicle.vehicle\_id

INNER JOIN Incentive ON Incentive.incentive\_id = Vehicle\_Incentive.fk\_incentive\_id

WHERE Incentive.type = 'dealer'