Kin-Ho Lam 5/15/19 CS 340

## Relational Algebra Assignment

- π Make.make\_name, Model.model\_name ( σ first\_production\_year = '1987' ((Vehicle ⋈ Model.model\_id = Vehicle.fk\_model\_id Model) ⋈ Make.make\_id = Vehicle.fk\_make\_id Make) )
- π Make.make\_name, Model.model\_name (σ Color.name = 'Sky Blue' ((((Vehicle ⋈ Model.model\_id = Vehicle.fk\_model\_id Model) ⋈ Make.make\_id = Vehicle.fk\_make\_id Make)⋈ Inventory.fk\_vehicle\_id = Vehicle.vehicle\_id Inventory)⋈ Inventory.fk color id = Color.color id Color))
- 3. π Make.make\_name, Model.model\_name, Incentive.amount (σ Incentive.type = 'dealer' (((Vehicle ⋈ Vehicle\_Incentive.fk\_vehicle\_id = Vehicle.vehicle\_id Vehicle\_Incentive) ⋈ Vehicle\_Incentive.fk\_incentive\_id = Incentive.incentive\_id Incentive) ⋈ Model.model\_id = Vehicle.fk\_model\_id Model) ⋈ Make.make\_id = Vehicle.fk\_make\_id Make)
- 4. π Player.id, Team.name, City.name (σ Player.score = 100 (Player ⋈ Player.team\_id = Team.id Team) ⋈ Team.city\_id = City.id City )
- 5. SELECT Make.make\_name, Model.model\_name, Incentive.amount FROM Vehicle INNER JOIN Vehicle\_Incentive
  ON Vehicle\_Incentive.fk\_vehicle\_id = Vehicle.vehicle\_id
  INNER JOIN Incentive
  ON Vehicle\_Incentive.fk\_incentive\_id = Incentive.incentive\_id
  INNER JOIN Model
  ON Model.model\_id = Vehicle.fk\_model\_id
  INNER JOIN Make
  ON Make.make\_id = Vehicle.fk\_make\_id
  WHERE Incentive.type = 'dealer';