Lecture 2 Notes - Wednesday 08/31/2016

Reading Quiz:
Question 1: Ans = E
Question 2: Ans = A
Question 3: Ans = C
Question 4: Ans = C
Question 5: Ans = B

Supertypes and Subtypes

Subtypes inherit attributes from supertypes
Use subtypes for stronger integrity constraints

Hint: Decompose when table too generic. Example: instead of a single Student table, split into subtypes Domestic_Student and International_Student inheriting from Student table. Student table contains common attributes across subtypes.

Primary keys of supertypes will be defined in subtype tables as foreign keys

Concept Question 1: Ans = D
Concept Question 2: Ans = D

CQ 2 Solution: Split up the job applicant’s contact information from their employment history. End up with 2 Entity Classes: Job_Applicant 1:N Employment_History linked by applicant_id

Concept Question 3: Ans = C
CQ 3 Solution: Add prev_departure_date field to Hotel_Reservation table, represents the most recent departure date for a given room; Add check constraint prev_departure_date <= arrival date.

ACL ERD Exercise:
Suggestion: come up with subtypes for the Event Entity Class. Hand-in for class participation points.