

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.