

INF 551 – Fall 2016 (Afternoon)

Quiz 6: Data modeling (10 points)

Solution

1.

(a) ER

In the E/R view, entities may have components in all subclasses to which they belong, i.e., properties are stored in subclasses, only key properties stored in both superclasses and subclasses to link them together.

Beers

<u>name</u>	manf
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Ales

<u>name</u>	color
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(b) OO

In the object-oriented world, objects are stored in one class only, i.e., subclasses inherit all properties from superclasses, all properties of the object are stored together.

Beers

<u>name</u>	manf
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Ales

<u>name</u>	manf	color
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(each table 1.5)

2.

OO is more efficient for the query. (2)

Color and manf are stored together in subclass table Ales, no need to join two tables like in ER approach.

(2)