

## Database Design Revision Questions

- Below is a partially completed Data Dictionary for the litters and puppies database. It contains the entity names and attribute names. State two other pieces of information that would be included in a data dictionary. (2)
- Based on the information below complete the data dictionary.

Mr and Mrs Jones are dog breeders and want to have a relational database to keep track of litters and puppies. The number of puppies in each litter will be at least one. Each Puppy's gender will be M or F and the cost of the puppy will be between £150 to £850 inclusive. (8)

### Entity Name: Litter

Attribute Name		Size		Key
LitterID	Number	-	Presence Check	
Sire	Text	10	-	-
Dame		10	-	-
NoInLitter	Number	-	Range ( $\geq 1$ )	-
DateOfBirth		-	Short Date	-

### Entity Name: Puppies

Attribute Name		Size		Key
PuppyID	Autonumber	-	Presence Check	Primary
Gender	Text	1		-
Cost	Currency	-	Range ( $\geq 150$ and $\leq 850$ )	-
LitterID		-	Lookup from litter	

- Draw the ER Diagram for the above entities litter and puppies. (5)
- Based on the information below complete the data dictionary.

BookMeAHoliday is a travel agent who books holidays to various destinations in Europe. They want to have a relational database to keep track of holidays and hotels. Each hotel grade is between 1 Star and 5 star and the price of a room per night is between £25 and £150. When booking the customer has a choice between 2-7 nights. (8)

### Entity Name - Hotel

Attribute Name	Type	Size	Key	Validation
HotelRef	Text			Presence
Hotel	Text	30	-	-
City		20	-	-
Grade	Text		-	Restricted – 1,2,3,4,5 star
Price	Currency	-	-	
kmAirport	Number	-	-	-

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## Entity Name – Holiday

Attribute Name	Type	Size	Key	Validation
Title		30		Presence
Destination	Text	20	-	-
Country	Text	20	-	-
DateDeparture		-	-	Short Date
Nights	Number	-	-	
HotelRef	Text	4		Lookup from Hotel

5. Draw the ER Diagram for the above Hotel and Holiday entities. (5)
6. An office has 10 different meeting rooms available for staff to book. Each meeting room has a different name depending on the room number and level it is on for example, L1R1, L1R2, L2R1 etc. When creating a database, explain how validation could be added to this field. (2)
7. Name and explain 2 types of validation that could be used within a database. (4)