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Database Analysis Revision Question - Answers

1. 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 from £150 to £850 inclusive. Mr & Mrs Jones want to be able to search for puppies between certain prices and display the details of these puppies sorted by cost.

Identify two functional requirements for this database. (2)

Functional Requirements:

- Should store the gender, cost and number of puppies in each litter
- Identify puppies between certain prices
- Sort the information on puppies by price
- Puppies should cost between £150 and £850 inclusive

2. 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. Customers should be able to sort hotels by star rating and search for hotels within certain countries.

Identify one end user and one functional requirement for this database. (2)

End User Requirements
- The database will be used by the travel agents and customers
- Travel agent should be able to store, sort and search details of holidays/hotels
- Customers should be able to sort and search hotel information

Functional Requirements

- Should store details on the destinations, star rating, price per night and number of nights
- Able to sort hotels by star rating
- Can identify hotels within certain countries
- Can select the number of nights between 2 and 7 nights
- Star rating for hotels should be between 1 and 5 stars
- Room costs should be between £25 and £150

3. RGC Wildlife is a wildlife park who has a variety of species of animals who each have a designated zoo keeper. Each animal belongs to a class of either mammal, reptile, amphibian or bird and lives between 1 and 100 years and zoo keepers want to be able to search for a specific class of animal. They want to have a relational database to keep track of animals and their corresponding keeper. Each keeper can look after a variety of animals, their gender is either M or F and they either work part-time or full-time.

Identify one end user requirement and two functional requirements for this database. (3)

End User Requirements
- Database will be used by RGC Wildlife
- Zoo keepers able to store and search for information on animals
- Information stored on the zoo keeper looking after each animal

Functional Requirements
- Store information on animals including the class and how long it lives for
- Store information on the zoo keepers including their gender, if they are part time or full time and what animals they look after
- Animals can live between 1 and 100 years
- Zoo Keeper gender can be M or F
- Zoo Keeper can work full time or part time only
- Zoo keepers should be able to search for specific class of animals