



Grade:

/ 13

Structures and Links (Databases) - 1

Name: _____

Answer the questions below in the spaces provided.

1. "All Creatures Great and Small" is a Vets practice which looks after a wide range of different domestic animals. Below is an extract from the PET table in their database.

PET TABLE

Pet ID	Pet Name	Owner ID	Type	Species	Join Date	Vaccinated?
990	Molly	12	Dog	Lhasa Apso	12/3/2012	Yes
512	Tiger	14	Cat	Bengal	15/8/2009	Yes
102	Cleopatra	26	Cat	Siamese	1/4/2010	Yes
110	Flopsy	26	Rabbit	Angora	3/6/2011	Yes
322	Polly	26	Cat	Moggy	14/7/2013	No
321	Samson	67	Dog	Labradoodle	23/2/2010	Yes
445	Goliath	67	Rodent	Chinchilla	18/11/2011	Yes
781	Ka	88	Snake	Burmese Python	29/1/2005	No

- a) State the most suitable data type for the "Vaccinated?" Field? (1)

- b) Explain your answer to part a). (1)

- c) Describe how the PET table has been sorted. (2)

- d) Explain how one of the vets could find a list of all the un-vaccinated cats. (2)

The vets keep a separate table which stores details of the pets' owners.

OWNER TABLE

Owner ID	Surname	Forename	Telephone No.	Address	Town
12	Jones	Janey	07999-123456	1 Acacia Av.	Cardenden
14	Philips	Oscar	01383-123456	2 High St	Dunfermline
16	McKay	Finbar	01592-123456	3 Main St	Kirkcaldy
26	Saunders	Albert	07000-123456	8 Bog Rd	Rosyth
67	Reeves	Martha	07777-987654	21 Owl Ave	Lochgelly
88	Marr	Alice	01383-987654	6 Beath Cres	Dunfermline

e) The OWNER and PET tables each have a *primary key*.

(i) Explain what is meant by a "primary key". (1)

(ii) Identify the *most suitable* field in the PET table. (1)

f) Explain why the **Owner ID** field also appears in the both tables. (2)

g) State the most suitable *field type* for the **Telephone No.** field and justify your answer. (2)

h) State an appropriate *validation check* for the Telephone No. Field in the OWNER table. (1)
