EX1.

CREATE TABLE people(

id INT,

first_name VARCHAR(20),

last_name VARCHAR(20),

address_id INT

);

CREATE TABLE pets(

 id INT,

 name VARCHAR(20),

 species VARCHAR(20),

 owner_id int

 );

1. add a primary key to the id fields in the pets and people tables

ALTER TABLE pets

 ADD PRIMARY KEY (id);

 ALTER TABLE people
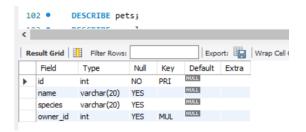
 ADD PRIMARY KEY (id);

verify

2. add a fk to the owner_id field in the pets table referencing the id field in the people table

ALTER TABLE pets

 ADD CONSTRAINT pets_owner

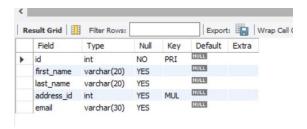 FOREIGN KEY (owner_id) REFERENCES people(id);

verify

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102 •    DESCRIBE pets;
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Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
name	varchar(20)	YES		NULL	
species	varchar(20)	YES		NULL	
owner_id	int	YES	MUL	NULL	

3. add a column named email to the people table

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
address_id	int	YES	MUL	NULL	
email	varchar(30)	YES		NULL	

4. add a unique constraint to the email column in the people table

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
first_name	varchar(20)	YES		NULL	
last_name	varchar(20)	YES		NULL	
address_id	int	YES	MUL	NULL	
email	varchar(30)	YES	UNI	NULL	

5. rename the name column in the pets table to 'first_name'

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
name	varchar(20)	YES		NULL	
species	varchar(20)	YES		NULL	
owner_id	int	YES	MUL	NULL	

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
first_name	varchar(20)	YES		NULL	
species	varchar(20)	YES		NULL	
owner_id	int	YES	MUL	NULL	

6. change the postcode data type to char(7) in the address table

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
house_number	int	YES		NULL	
city	varchar(30)	YES		NULL	
postcode	char(7)	YES		NULL	

verify