**Ch3-SQL-Create-Insert**

**In-Class:** Chapter 3 SQL CREATE TABLE and INSERT INTO - In-Class \_\_\_ \_\_\_ \_\_

Use the following tables for your answers:

* PET\_OWNER (OwnerID, OwnerLastName, OwnerFirstName, OwnerPhone, OwnerEmail)
* PET (PetID, PetName, PetType, PetBreed, PetDOB, *OwnerID*)
* OwnerID in PET must exist in OwnerID in PET\_OWNER.

**PET\_OWNER Data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **OwnerID** | **OwnerLastName** | **OwnerFirstName** | **OwnerPhone** | **OwnerEmail** |
| 1 | Downs | Marsha | 555-537-8765 | marsha@sw.com |
| 2 | James | Richard | 555-537-7654 | richard@sw.com |
| 3 | Frier | Liz | 555-537-6543 | liz@sw.com |
| 4 | Trent | Miles |  | miles@sw.com |

**PET Data**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PetID** | **PetName** | **PetType** | **PetBreed** | **PetDOB** | **OwnerID** |
| 1 | King | Dog | Std. Poodle | 27-Feb-11 | 1 |
| 2 | Teddy | Cat | Cashmier | 01-Feb-12 | 2 |
| 3 | Fido | Dog | Std. Poodle | 17-Jul-10 | 1 |
| 4 | AJ | Dog | Collie Mix | 05-May-11 | 3 |
| 5 | Cedro | Cat | Unknown | 06-Jun-09 | 2 |
| 6 | Woolley | Cat | Unknown |  | 2 |
| 7 | Buster | Dog | Border Collie | 11-Dec-08 | 4 |

**Question 1:** Write an SQL CREATE TABLE statement to create the PET\_OWNER table, with OwnerID as a surrogate key. Justify your choices of column properties.

CREATE TABLE PET\_OWNER (

OwnerID Int NOT NULL IDENTITY (1,1),

OwnerLastName Char(25) NOT NULL,

OwnerFirstName Char(25) NOT NULL,

OwnerPhone Char(12) NULL,

OwnerEmail Char(35) NOT NULL,

CONSTRAINT PET\_OWNER\_PK PRIMARY KEY (OwnerID)

);

**Question 2:** Write an SQL CREATE TABLE statement to create the PET table with a referential integrity constraint on OwnerID in PET. Justify your choices of column properties.

CREATE TABLE PET (

PetID Int NOT NULL IDENTITY (1,1),

PetName Char(25) NOT NULL,

PetType Char(25) NOT NULL,

PetBreed Char(25) NOT NULL,

PetDOB Date NULL,

OwnerID Int NOT NULL,

CONSTRAINT PET\_PK PRIMARY KEY (PetName),

CONSTRAINT PET\_FK FOREIGN KEY (OwnerID)

REFERENCES PET\_OWNER (OwnerID)

);

**Question 3:** Write SQL statements to insert the data for Marsha Downs and Miles Trent into the PET\_OWNER table.

INSERT INTO PET\_OWNER

VALUES ( ‘Downs’, ‘Marsha’, ‘555-537-8765’, ‘marsha@sw.com’ );

INSERT INTO PET\_OWNER ( OwnerLastName, OwnerFirstName, OwnerEmail )

VALUES ( ‘Trent, ‘Miles’, ‘miles@sw.com’ );

**Question 4:** Write SQL statements to insert the data for King and Woolley into the PET table.

INSERT INTO PET

VALUES ( ‘King, ‘Dog, ‘Std. Poodle’, ’27-Feb-11’, 1 );

INSERT INTO PET ( PetName, PetType, PetBreed, OwnerID )

VALUES ( ‘Woolley’, ‘Cat, ‘Unknown’, 2 );