**Ch3-SQL-Join-2**

**In-Class:** Chapter 3 SQL Join Part 2 - In-Class \_\_\_ \_\_\_ \_\_

Use the following tables for your answers:

* PET\_OWNER (OwnerID, OwnerLastName, OwnerFirstName, OwnerPhone, OwnerEmail)
* PET\_3 (PetID, PetName, PetType, *PetBreed*, PetDOB, PetWeight, *OwnerID*)
* BREED (BreedName, MinWeight, MaxWeight, AverageLifeExpectancy)
* OwnerID in PET\_3 must exist in OwnerID in OWNER.
* PetBreed in PET\_3 must exist in BreedName in BREED.

Sample data for these tables are shown below. For each SQL statement you write, show the results based on these data.

**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\_3 Data**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **PetID** | **PetName** | **PetType** | **PetBreed** | **PetDOB** | **PetWeight** | **OwnerID** |
| 1 | King | Dog | Std. Poodle | 27-Feb-11 | 25.5 | 1 |
| 2 | Teddy | Cat | Cashmier | 01-Feb-12 | 10.5 | 2 |
| 3 | Fido | Dog | Std. Poodle | 17-Jul-10 | 28.5 | 1 |
| 4 | AJ | Dog | Collie Mix | 05-May-11 | 20.0 | 3 |
| 5 | Cedro | Cat | Unknown | 06-Jun-09 | 9.5 | 2 |
| 6 | Woolley | Cat | Unknown |  | 9.5 | 2 |
| 7 | Buster | Dog | Border Collie | 11-Dec-08 | 25.0 | 4 |

**BREED Data**

|  |  |  |  |
| --- | --- | --- | --- |
| **BreedName** | **MinWeight** | **MaxWeight** | **AverageLifeExpectancy** |
| Border Collie | 15.0 | 22.5 | 20 |
| Cashmier | 10.0 | 15.0 | 12 |
| Collie Mix | 17.5 | 25.0 | 18 |
| Std. Poodle | 22.5 | 30.0 | 18 |
| Unknown |  |  |  |

Question 1: Write an SQL statement to display the OwnerLastName, OwnerFirstName, and OwnerEmail of any owner of a pet that has an AverageLifeExpectancy value greater than 15. Use a join.

SELECT DISTINCT OwnerLastName, OwnerFirstName, OwnerEmail

FROM PET\_OWNER, PET\_3, BREED

WHERE AverageLifeExpectancy > 15

AND PET\_3.OwnerID = PET\_OWNER.OwnerID

AND PET\_3.PetBreed = BREED.BreedName;

|  |  |  |
| --- | --- | --- |
| **OwnerLastName** | **OwnerFirstName** | **OwnerEmail** |
| Trent | Miles | [miles@sw.com](mailto:miles@sw.com) |
| Frier | Liz | [liz@sw.com](mailto:liz@sw.com) |
| Downs | Marsha | [marsha@sw.com](mailto:marsha@sw.com) |

Question 2: Write an SQL statement to display the OwnerLastName, OwnerFirstName, PetName, PetType, PetBreed, and AverageLifeExpectancy for pets with a known PetBreed. Use a join.

SELECT OwnerLastName, OwnerFirstName, PetName, PetType, PetBreed, AverageLifeExpectancy

FROM PET\_OWNER, PET\_3, BREED

WHERE PetBreed <> ‘Unknown’

AND PET\_3.OwnerID = PET\_OWNER.OwnerID

AND PetBreed = BreedName;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **OwnerLastName** | **OwnerFirstName** | **PetName** | **PetType** | **PetBreed** | **AverageLifeExpectancy** |
| Downs | Marsha | King | Dog | Std. Poodle | 18 |
| James | Richard | Teddy | Cat | Cashmier | 12 |
| Downs | Marsha | Fido | Dog | Std. Poodle | 18 |
| Frier | Liz | AJ | Dog | Collie Mix | 18 |
| Trent | Miles | Buster | Dog | Border Collie | 20 |