

MySQL Exercise 8: Answer Key

Question 1:

%%sql

```
SELECT d.user_guid AS UserID, d.dog_guid AS DogID, d.breed, d.breed_type,  
       d.breed_group  
FROM dogs d JOIN complete_tests c  
  ON d.dog_guid=c.dog_guid  
WHERE test_name='Yawn Warm-up';
```

Question 2:

%%sql

```
SELECT r.dog_guid AS rDogID, d.dog_guid AS dDogID, r.user_guid AS rUserID,  
       d.user_guid AS dUserID, AVG(r.rating) AS AvgRating, COUNT(r.rating) AS  
       NumRatings, d.breed, d.breed_group, d.breed_type  
FROM dogs d RIGHT JOIN reviews r  
  ON d.dog_guid=r.dog_guid AND d.user_guid=r.user_guid  
WHERE r.dog_guid IS NOT NULL  
GROUP BY r.dog_guid  
HAVING NumRatings >= 10  
ORDER BY AvgRating DESC;
```

Question 3:

%%sql

```
SELECT d.user_guid AS dUserID, c.user_guid AS cUserID, d.dog_guid AS dDogID,  
       c.dog_guid AS dDogID, count(test_name)  
FROM dogs d LEFT JOIN complete_tests c  
  ON d.dog_guid=c.dog_guid  
GROUP BY d.dog_guid;
```

Question 4:

%%sql

```
SELECT d.user_guid AS dUserID, c.user_guid AS cUserID, d.dog_guid AS dDogID,  
       c.dog_guid AS dDogID, count(test_name)  
FROM dogs d LEFT JOIN complete_tests c  
  ON d.dog_guid=c.dog_guid  
GROUP BY c.dog_guid;
```

Question 5:

%%sql

```
SELECT COUNT(DISTINCT dog_guid)  
FROM complete_tests;
```

Question 6:

%%sql

```
SELECT u.user_guid AS uUserID, d.user_guid AS dUserID, d.dog_guid AS dDogID,  
       d.breed  
FROM users u LEFT JOIN dogs d  
     ON u.user_guid=d.user_guid;
```

OR

%%sql

```
SELECT u.user_guid AS uUserID, d.user_guid AS dUserID, d.dog_guid AS dDogID,  
       d.breed  
FROM dogs d RIGHT JOIN users u  
     ON d.user_guid=u.user_guid;
```

Question 7:

%%sql

```
SELECT u.user_guid AS uUserID, d.user_guid AS dUserID, d.dog_guid AS dDogID,  
       d.breed, count(*) AS numrows  
FROM users u LEFT JOIN dogs d  
     ON u.user_guid=d.user_guid  
GROUP BY u.user_guid  
ORDER BY numrows DESC;
```

Question 8:

%%sql

```
SELECT COUNT(user_guid)  
FROM users  
WHERE user_guid='ce225842-7144-11e5-ba71-058fbc01cf0b';
```

Question 9:

%%sql

```
SELECT *  
FROM dogs  
WHERE user_guid='ce225842-7144-11e5-ba71-058fbc01cf0b';
```

Question 10:

%%sql

```
SELECT COUNT(DISTINCT u.user_guid)  
FROM users u LEFT JOIN dogs d  
     ON u.user_guid=d.user_guid  
WHERE d.user_guid IS NULL;
```

Question 11:

%%sql

```
SELECT COUNT(DISTINCT u.user_guid)  
FROM dogs d RIGHT JOIN users u  
     ON d.user_guid=u.user_guid  
WHERE d.user_guid IS NULL;
```

Question 12:

%%sql

```
SELECT s.dog_guid AS SA_dogs_not_present_in_dogs_table, COUNT(*) AS  
NumEntries  
FROM site_activities s LEFT JOIN dogs d  
    ON s.dog_guid=d.dog_guid  
WHERE d.dog_guid IS NULL AND s.dog_guid IS NOT NULL  
GROUP BY SA_dogs_not_present_in_dogs_table;
```