MySQL Exercise 7: Answer Key

Questions 1-4:
```
%%sql
SELECT COUNT(DISTINCT dog_guid)
FROM reviews;
```

```
%%sql
SELECT COUNT(DISTINCT user_guid)
FROM reviews;
```

```
%%sql
SELECT COUNT(DISTINCT dog_guid)
FROM dogs;
```

```
%%sql
SELECT COUNT(DISTINCT user_guid)
FROM dogs;
```

Question 5:
```
%%sql
SELECT d.user_guid AS UserID, d.dog_guid AS DogID, d.breed,
        d.breed_type,  d.breed_group
FROM dogs d, complete_tests c
WHERE d.dog_guid=c.dog_guid AND test_name='Yawn Warm-up';
```

Question 6:
```
%%sql
SELECT DISTINCT d.user_guid AS UserID,  u.membership_type, d.dog_guid AS
          DogID, d.breed
FROM dogs d, complete_tests c, users u
WHERE d.dog_guid=c.dog_guid
  AND d.user_guid=u.user_guid
  AND d.breed="golden retriever";
```

Question 7:
```
%%sql
SELECT u.state AS state, d.breed AS breed, COUNT(DISTINCT d.dog_guid)
FROM users u, dogs d
WHERE d.user_guid=u.user_guid AND breed="Golden Retriever"
GROUP BY state
HAVING state="NC";
```

Question 8:
```sql
%%sql
SELECT u.membership_type AS Membership, COUNT(DISTINCT r.user_guid)
FROM users u, reviews r
WHERE u.user_guid=r.user_guid
GROUP BY membership_type;
```

Question 9:
```sql
%%sql
SELECT d.breed, COUNT(s.script_detail_id) AS activity
FROM dogs d, site_activities s
WHERE d.dog_guid=s.dog_guid AND s.script_detail_id IS NOT NULL
GROUP BY breed
ORDER BY activity DESC
LIMIT 3;
```