MySQL Exercise 10: Answer Key

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Question 1:
%%sql
SELECT DISTINCT user_guid, country
FROM users
WHERE country IS NOT NULL;
Question 2:
%%sal
SELECT IF(cleaned_users.country='US','In US','Outside US') AS user_location,
count(cleaned_users.user_guid) AS num_guids
FROM (SELECT DISTINCT user guid, country
   FROM users
   WHERE user guid IS NOT NULL AND country IS NOT NULL) AS cleaned users
GROUP BY user location;
Question 3:
%%sql
SELECT dog guid, dog fixed,
  CASE dog_fixed
     WHEN "1" THEN "neutered"
     WHEN "0" THEN "not neutered"
  END AS neutered
FROM dogs
LIMIT 200;
Question 4:
%%sql
SELECT dog guid, exclude,
  CASE exclude
     WHEN "1" THEN "exclude"
     ELSE "keep"
  END AS exclude cleaned
FROM dogs
LIMIT 200;
Question 5:
%%sql
SELECT dog_guid, exclude, IF(exclude="1","exclude","keep") AS exclude_cleaned
FROM dogs
LIMIT 200;
Question 6:
%%sql SELECT
dog_guid, weight,
  CASE
     WHEN weight<=0 THEN "very small"
     WHEN weight>10 AND weight<=30 THEN "small"
     WHEN weight>30 AND weight<=50 THEN "medium"
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WHEN weight>50 AND weight<=85 THEN "large"
     WHEN weight>85 THEN "very large"
  END AS weight grouped
FROM dogs
LIMIT 200;
Question 7:
4871 unique dog guids in Group 1
Question 8:
3461 unique dog guids in Group 1
Question 9:
46 unique dog_guids in Group 1
Question 10:
%%sql
SELECT d.dog_guid AS dogID, d.breed_type AS breed_type, count(c.created_at) AS
  IF(d.breed type='Pure Breed', 'pure breed', 'not pure breed') AS pure breed
FROM dogs d, complete tests c
WHERE d.dog guid=c.dog guid
GROUP BY dogID, breed type, pure breed
LIMIT 50:
**Note that "breed_type" and "pure_breed" are technically optional in this query (above),
since dogID should be unique.
Question 11:
%%sal
SELECT COUNT(DISTINCT user_guid),
      CASE
         WHEN (state="NY" OR state="NJ") THEN "Group 1-NY/NJ"
         WHEN (state="NC" OR state="SC") THEN "Group 2-NC/SC"
         WHEN state="CA" THEN "Group 3-CA"
         ELSE "Group 4-Other"
      END AS state group
FROM users
WHERE country="US" AND state IS NOT NULL
GROUP BY state_group;
Question 12:
%%sql
SELECT COUNT(DISTINCT dog guid)
FROM dogs
WHERE dna tested=1 AND (dimension='stargazer' OR dimension='socialite');
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