MySQL Exercise 9: Answer Key

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Question 1:
%%sql
SELECT AVG(TIMESTAMPDIFF(minute, start_time, end_time)) AS AvgDuration
FROM exam answers
WHERE TIMESTAMPDIFF(minute, start time, end time)>0 AND test name="Yawn
Warm-Up";
Question 2:
%%sql
SELECT *
FROM exam answers
WHERE TIMESTAMPDIFF(minute, start_time, end_time) >
    (SELECT AVG(TIMESTAMPDIFF(minute, start time, end time)) AS AvgDuration
    FROM exam answers
    WHERE TIMESTAMPDIFF(minute,start_time,end_time)>0 AND
    test name="Yawn
                          Warm-Up");
Question 3:
%%sal
SELECT COUNT(*)
FROM exam answers
WHERE subcategory name IN ('Puzzles', 'Numerosity', 'Bark Game');
Question 4:
%%sql
SELECT COUNT(DISTINCT dog guid)
FROM dogs
WHERE breed group NOT IN ('Working', 'Sporting', 'Herding');
Question 5:
%%sql
SELECT DISTINCT u.user guid AS uUserID
FROM users u
WHERE NOT EXISTS (SELECT d.user_guid
       FROM dogs d
       WHERE u.user guid =d.user guid);
Question 6:
%%sql
SELECT DISTINCT d.dog guid, d.breed group, u.state, u.zip
FROM dogs d, users u
WHERE breed group IN ('Working', 'Sporting', 'Herding') AND d.user guid=u.user guid;
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Question 7:
%%sql
SELECT DISTINCT d.dog_guid, d.breed_group, u.state, u.zip
FROM dogs d JOIN users u
 ON d.user guid=u.user guid
WHERE breed_group IN ('Working','Sporting','Herding');
Question 8:
%%sal
SELECT d.user_guid AS dUserID, d.dog_guid AS dDogID
FROM dogs d
WHERE NOT EXISTS (SELECT DISTINCT u.user guid
       FROM users u
       WHERE d.user_guid =u.user_guid);
Question 9:
%%sql
SELECT DistinctUUsersID.user_guid AS uUserID, d.user_guid AS dUserID, count(*) AS
FROM (SELECT DISTINCT u.user_guid
      FROM users u
      WHERE u.user guid='ce7b75bc-7144-11e5-ba71-058fbc01cf0b') AS
    DistinctUUsersID
LEFT JOIN dogs d
 ON DistinctUUsersID.user guid=d.user guid
GROUP BY DistinctUUsersID.user guid
ORDER BY numrows DESC;
Question 10:
%%sal
SELECT DISTINCT d.user_guid
FROM dogs d
Question 11:
%%sal
SELECT DistinctUUsersID.user_guid AS uUserID, DistictDUsersID.user_guid AS
dUserID, count(*) AS numrows
FROM (SELECT DISTINCT u.user guid
      FROM users u
      WHERE u.user_guid='ce7b75bc-7144-11e5-ba71-058fbc01cf0b') AS
DistinctUUsersID
LEFT JOIN (SELECT DISTINCT d.user guid
          FROM dogs d) AS DistictDUsersID
 ON DistinctUUsersID.user guid=DistictDUsersID.user guid
GROUP BY DistinctUUsersID.user guid
ORDER BY numrows DESC;
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Question 12:

%%sql

SELECT DistinctUUsersID.user_guid AS uUserID, DistictDUsersID.user_guid AS dUserID,

DistictDUsersID.dog_guid AS DogID, DistictDUsersID.breed AS breed FROM (SELECT DISTINCT u.user_guid

FROM users u

LIMIT 100) AS DistinctUUsersID

LEFT JOIN (SELECT DISTINCT d.user_guid, d.dog_guid, d.breed

FROM dogs d) AS DistictDUsersID

ON DistinctUUsersID.user_guid=DistictDUsersID.user_guid
ORDER BY DistinctUUsersID.user_guid;

Question 13:

%%sql

SELECT DistictUUsersID.user_guid AS userid, d.breed, d.weight, count(*) AS numrows FROM (SELECT DISTINCT u.user_guid

FROM users u) AS DistictUUsersID

LEFT JOIN dogs d

ON DistictUUsersID.user_guid=d.user_guid

GROUP BY DistictUUsersID.user guid

HAVING numrows>10

ORDER BY numrows DESC;