MySQL Exercise 5: Answer Key

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Question 1:
%%sal
SELECT gender, breed group, COUNT(DISTINCT dog guid) AS Num Dogs
FROM doas
GROUP BY gender, breed group
ORDER BY Num Dogs DESC;
Question 2:
%%sql
SELECT gender, breed group, COUNT(DISTINCT dog guid) AS Num Dogs
FROM dogs
GROUP BY 1, 2
ORDER BY 3 DESC;
Question 3:
%%sql
SELECT gender, breed group, COUNT(DISTINCT dog guid) AS Num Dogs
FROM dogs
WHERE breed group IS NOT NULL AND breed group!="None" AND breed group!=""
GROUP BY 1, 2
HAVING Num Dogs >= 1000
ORDER BY 3 DESC:
Question 4:
%%sql
SELECT breed type, AVG(total tests completed) AS TotTests, AVG(mean iti minutes)
       AS AvgMeanITI
FROM doas
GROUP BY breed type
ORDER BY AVG(total_tests_completed) DESC;
Question 5:
%%sql
SELECT test_name, AVG(TIMESTAMPDIFF(hour,start_time,end_time)) AS Duration
FROM exam answers
WHERE TIMESTAMPDIFF(HOUR, start time, end time) < 6000 and
TIMESTAMPDIFF(minute, start time, end time) > 0
GROUP BY test name
ORDER BY Duration desc:
Question 6:
%%sal
SELECT state, zip, COUNT(DISTINCT user guid) AS NUM Users
FROM users
WHERE Country="US"
GROUP BY State, zip
ORDER BY State ASC, NUM_Users DESC;
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Question 7:
%%sql
SELECT state, zip, COUNT(DISTINCT user_guid) AS NUM_Users
FROM users
WHERE Country="US"
GROUP BY State, zip
HAVING NUM_Users>=5
ORDER BY State ASC, NUM_Users DESC;