MySQL Exercise 5: Answer Key

Question 1: %%sql SELECT gender, breed group, COUNT(DISTINCT dog guid) AS Num Dogs FROM dogs 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 dogs 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(MINUTE, start_time, end_time)<6000 AND AVG (timestampdiff(HOUR,start_time,end_time)) > 0 GROUP BY test name ORDER BY Duration desc; *Note: MINUTE could also be replaced by SECOND in this guery. 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;
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;