





ASSIGNMENT 9 Groupby

Follow the same formatting guidelines as the previous homework assignment.

0	Copy and paste the contents of student.txt into your SQLPlus session. Rename the tables such that they are all prefixed with the first five letters of your lastname such as sabze_student. Make sure that the tables (student, classes and student_classes) are all renamed properly before you continue. You don't need to paste anything from SQLPlus for this question.																								
1	Write a single SQL statement that displays the number of of people with the same lastname. The results should contain the lastname and the count for each lastname. Exclude from the list all those who live in CA																								
	<div><div>WorksheetQuery Builder</div><div><pre>SELECT lname, COUNT(lname) FROM amele_student WHERE UPPER(state) != 'CA' GROUP BY lname;</pre></div><div><div>Query Result x</div><div>    SQL All Rows Fetched: 7 in 0.025 seconds</div><table><thead><tr><th></th><th>LNAME</th><th>COUNT(LNAME)</th></tr></thead><tbody><tr><td>1</td><td>Al</td><td>1</td></tr><tr><td>2</td><td>Blotch-Halls</td><td>1</td></tr><tr><td>3</td><td>Greenr</td><td>1</td></tr><tr><td>4</td><td>Greene</td><td>1</td></tr><tr><td>5</td><td>Gringlesby</td><td>1</td></tr><tr><td>6</td><td>White</td><td>1</td></tr><tr><td>7</td><td>del Castillo</td><td>1</td></tr></tbody></table></div></div>		LNAME	COUNT(LNAME)	1	Al	1	2	Blotch-Halls	1	3	Greenr	1	4	Greene	1	5	Gringlesby	1	6	White	1	7	del Castillo	1
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7	del Castillo	1																							
2	Write a single SQL statement that displays the number of people living in each of the states. The results should display the state and the number of people living in each state. Exclude from the list all those who are living in cities that contains the letter 'h'																								

Worksheet

Query Builder

SELECT state, COUNT(state) FROM amele_student WHERE UPPER(city) NOT LIKE '%H%' GROUP BY state;

Query Result

All Rows Fetched: 6 in 0.028 seconds

STATE	COUNT(STATE)
1 UT	1
2 MI	1
3 NY	1
4 OR	1
5 CA	8
6 ma	1

3

Use a single SQL statement that displays the ssn and the number of classes a student is taking with the column heading “number of classes” where the number of classes is less than 2 , order by ssn descending.

Worksheet

Query Builder

SELECT ssn, COUNT(class_code) AS "Number of Classes" FROM amele_student_class GROUP BY ssn HAVING COUNT(class_code) < 2 ORDER BY ssn DESC;

Query Result

All Rows Fetched: 12 in 0.031 seconds

SSN	Number of Classes
1 846-92-7186	1
2 712-45-1867	1
3 672-71-3249	1
4 648-92-1872	1
5 527-72-3246	1
6 486-29-1786	1
7 472-27-2349	1
8 427-17-2319	1
9 409-56-7008	1
10 267-41-2394	1
11 213-46-8915	1
12 172-32-1176	1

4

Write a single SQL statement that displays the average age for each city, state combination for all students whose salary is greater than the average salary and are taking some kind of ‘Intro’ class. Also exclude the city ‘Berkeley’ from the list regardless of case. Sort by city in ascending order and state in descending order

Worksheet

Query Builder

SELECT city, state, ROUND(AVG(TRUNC(MONTHS_BETWEEN(sysdate,dob))/12)) AS "AVERAGE AGE" FROM amele_student WHERE ssn IN (SELECT ssn FROM amele_student_class WHERE class_code IN (SELECT class_code FROM amele_class WHERE UPPER(class_description) LIKE '%INTRO%')) AND UPPER(city) != 'Berkeley' GROUP BY city,state ORDER BY city ASC, state DESC;

Script Output

Query Result

All Rows Fetched: 6 in 0.035 seconds

CITY	STATE	AVERAG...
1 Covelo	NY	28
2 Oakland	CA	35
3 Palo Alto	CA	38
4 Salt Lake City	UT	32
5 San Jose	CA	29
6 Walnut Creek	CA	30

5

Write a single SQL statement that displays the States in lower case along with the rounded average age for the different states with the alias name “average of ages” for all the students who are taking a class that contains ‘principles’ in its description regardless of case.

