-- LEFT and RIGHT Ouizzes

1. In the accounts table, there is a column holding the website for each company. The last three digits specify what type of web address they are using. A list of extensions (and pricing) is provided here. Pull these extensions and provide how many of each website type exist in the accounts table.

2. There is much debate about how much the name (or even the first letter of a company name) matters. Use the accounts table to pull the first letter of each company name to see the distribution of company names that begin with each letter (or number).

3. Use the accounts table and a CASE statement to create two groups: one group of company names that start with a number and a second group of those company names that start with a letter. What proportion of company names start with a letter?

FROM accounts GROUP BY 1

--350/351 * 100 = 0.29

```
4. Consider vowels as a, e, i, o, and u. What proportion of
company names start with a vowel, and what percent start
with anything else?
WITH vowel AS (
                 SELECT COUNT(*) vowel
                 FROM accounts
                 WHERE LEFT(UPPER(name),1) IN
('A','E','I','O','U')
SELECT ROUND(ROUND(vowel * 100,2) / (SELECT COUNT(*) FROM
accounts),2) vowel_percentage
FROM vowel
-- POSITION & STRPOS Ouiz
5. Use the accounts table to create first and last name
columns that hold the first and last names for the
primary poc.
select primary_poc,
length(primary_poc) length poc,
position(' ' in primary_poc) position_space,
strpos(primary poc, ' ') strpos space,
left(primary_poc,position(' ' in primary_poc)-1)first_name,
right(primary_poc,-strpos(primary_poc, ' '))last_name
                            from accounts
6. Now see if you can do the same thing for every rep name
in the sales reps table. Again provide first and last name
columns.
with t1 as (
select left(name, strpos(name, ' ')-1) first_name,
       right(name, -strpos(name, '')) last name
from sales reps)
select first name,
       length(first name) len,
        last name,
       length(last name) len last
from t1
```

6. Each company in the accounts table wants to create an email address for each primary_poc. The email address should be the first name of the primary_poc . last name primary_poc @ company name .com.

7. You may have noticed that in the previous solution some of the company names include spaces, which will certainly not work in an email address. See if you can create an email address that will work by removing all of the spaces in the account name, but otherwise your solution should be just as in question 1. Some helpful documentation is here.

same as 3.

8. We would also like to create an initial password, which they will change after their first log in. The first password will be the first letter of the primary_poc's first name (lowercase), then the last letter of their first name (lowercase), the first letter of their last name (lowercase), the last letter of their last name (lowercase), the number of letters in their first name, the number of letters in their last name, and then the name of the company they are working with, all capitalized with no spaces.

```
with t1 as (
select primary_poc,
left(lower(primary_poc), strpos(primary_poc,' ')-1)
first_name,
right(lower(primary_poc), -strpos(primary_poc, ' '))
last_name,
lower(replace(name, ' ', '')) company_name from
accounts )
```

select

```
primary_poc, left(first_name,1) || right(first_name,1)
|| left(last_name,1) || right(last_name,1) ||
length(first_name) || length(last_name) ||
replace(company_name,'.','') as password from t1
-- CAST
9. Write a guery to change the date into correct SQL
format. You will need to use at least SUBSTR and CONCAT.
with t1 as (select trim(left(date, strpos(date, ' ')))
wrong date from sf crime data
limit 10),
t2 as (
  select wrong date,
         substring(wrong_date,1,2) clean_month,
         substring(wrong_date,4,2) clean_day,
         substring(wrong date, 7,4) clean year
  from t1
select wrong_date, cast(clean_year||'-'||clean_month||'-'||
clean day as date) from t2
-- COALESCE
10. Use COALESCE to fill in the missing values.
SELECT *.
           COALESCE(a.id,a.id) filled_accounts_id,
           COALESCE(o.account id,a.id)
filled orders account id,
           COALESCE(standard qty,0) filled std qty,
           COALESCE(gloss qty,0) filled_gloss_qty,
            COALESCE(poster qty,0) filled poster qty,
            COALESCE(standard_amt_usd,0)
filled standard amt usd,
            COALESCE(gloss amt usd,0) filled gloss amt usd,
            COALESCE(poster amt usd,0) filled poster amt usd
FROM accounts a
LEFT JOIN orders o ON a.id = o.account id
```