Assignment 3: Practice with Functions, Conditional Expressions and Concatenation

Complete following problems related to the professors table you created in assignment 1.

4	last_name character varying (20)	department character varying (12)	salary integer	hire_date date
1	Chong	Science	88000	2006-04-18
2	Brown	Math	97000	2002-08-22
3	Jones	History	67000	2009-11-17
4	Wilson	Astronomy	110000	2005-01-15
5	Miller	Agriculture	82000	2008-05-08
6	Williams	Law	105000	2001-06-05

Questions for this assignment

- Write a query against the professors table that can output the following in the result: "Chong works in the Science department"
- 2. Write a SQL query against the professors table that would return the following result:

NOTE: A professor is highly paid if they make greater than 95000.

- 3. Write a query that returns all of the records and columns from the professors table but shortens the department names to only the first three characters in upper case.
- 4. Write a query that returns the highest and lowest salary from the professors table excluding the professor named 'Wilson'.
- 5. Write a query that will display the hire date of the professor that has been teaching the longest.

[&]quot;It is false that professor Chong is highly paid"

[&]quot;It is true that professor Brown is highly paid."

[&]quot;It is false that professor Jones is highly paid"

[&]quot;It is true that professor Wilson is highly paid"

[&]quot;It is false that professor Miller is highly paid"

[&]quot;It is true that professor Williams is highly paid"

Do not scroll past here without trying out the assignment yourself

Instructor Solutions for this assignment

1. Write a query against the professors table that can output the following in the result: "Chong works in the Science department"

SELECT last_name || ' ' || 'works in the '|| department ||

' department'

FROM professors

2. Write a SQL query against the professors table that would return the following result:

"It is false that professor Chong is highly paid"

NOTE: A professor is highly paid if they make greater than 95000.

SELECT 'It is ' || (salary > 95000) ||

'that professor'||last_name||'is highly paid'

FROM professors

3. Write a query that returns all of the records and columns from the professors table but shortens the department names to only the first three characters in upper case.

SELECT last_name,

UPPER(SUBSTRING(department, 1, 3)) as department,

salary, hire_date

FROM professors

[&]quot;It is true that professor Brown is highly paid"

[&]quot;It is false that professor Jones is highly paid"

[&]quot;It is true that professor Wilson is highly paid"

[&]quot;It is false that professor Miller is highly paid"

[&]quot;It is true that professor Williams is highly paid"

