COMM1822

Term 2 2022

Introduction to Databases for Business Analytics

Assignment Project Exam Help

Week 4: SQL 2

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We acknowledge all Aboriginal and Torres St https://eduassistpro.github.io/Islander Elders, past and present and their communities who have shared and practiced their teachings over thousands of years including Add WeChat edu_assist_probusiness practices.

We recognise Aboriginal and Torres Strait Islander people's ongoing leadership and contributions, including to business, education and industry. UNSW Business School. (2022, May 7). *Acknowledgement of Country* [online video]. Retrieved from https://vimeo.com/369229957/d995d8087f



Single Row Functions

These functions will all manipulate the data in some way.

- ☐ Are applied to the column specified only. Exam Help
- ☐ Apply to every record i https://eduassistpro.github.io/me way.
 - Add WeChat edu_assist_pro
- ☐ The following are non exhaustive lists nctions under each category.



Case Conversion Functions

□LOWER → returns a string with all characters converted to lowercase.

```
Assignment Project Exam Help nverted to uppercase.

Assignment Project Exam Help nverted to uppercase.
```

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□INITCAP → converts the first tetter in the edu_assisto propercase, and every other letter to lowercase.



Case Conversion Functions (Demo)

☐ List all information about countries in COUNTRIES table.

```
SELECT * FROM COUNTRIES:
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```

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□ Output the country name in its verified that redu_assist spread is 'AU'.

```
SELECT UPPER(country_name) FROM COUNTRIES WHERE country_id = 'AU';
```



Character Manipulation Functions

Find the length of strings, extract certain parts of the string (e.g., first few characters only) and replace character in a string.

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- SUBSTR → Extract a portio
- □ INSTR → Return the numeri https://eduassistpro.github.io/ string
- □ LENGTH → Width of the charagter wing hat edu_assist_pro
- □ LPAD → Left-pad a string with another string, ength.
- □ RPAD → Right-pad a string with another string, to a certain length.
- □ LTRIM → Remove all occurrences of a substring from the left-hand side of the string
- □ RTRIM → Same as LTRIM, but removes from the right-hand side
- □ REPLACE → Substitute a string with another string.



Character Manipulation Functions (Demo)

☐ List all information about departments

```
SELECT * FROM DEPARTMENTS;
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```

List all department IDs by https://eduassistpro.gitand.make it as a 5-character string, where '1 rsity in Australia.

SELECT LPAD(department_id, 5, '10') from DEPARTMENTS;

☐ Rename the column

SELECT LPAD(department_id, 5, '100') AS "LeftPadData" from DEPARTMENTS;



Number Functions

- □ROUND → Round numeric fields to the stated precision
- □TRUNC → Delete numeric points to the stated precision Assignment Project Exam Help
 □MOD → Remainder of a
- □ABS → Absolute value https://eduassistpro.github.io/
- □POWER → Statistical power WeChat edu_assist_pro

Number Functions (Demo)

☐ We can use the 'DUAL' table to do miscellaneous calculations

□ Calculate 2³ Assignment Project Exam Help

SELECT POWER(https://eduassistpro.github.io/

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☐ Find the remainder of 4 divided by 3

SELECT MOD(4, 3) FROM DUAL;

Date Functions

Date Functions (Demo)

☐Output the current date

```
SELECT SYSDATE FROM DUAL:
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```

☐ Output the date of upcohttps://eduassistpro.git/hurlæi2022

```
SELECT NEXT_DAY( DATE '2022-96-2 Add WeChat edu_assist_pro DUAL;
```

☐ Calculate how many months between 2nd June 2022 and 1st January 2020

```
SELECT MONTHS_BETWEEN(To_date('02-06-2022', 'DD-MM-YYYY'), To_date('01-01-2020', 'DD-MM-YYYY')) "Months" FROM DUAL;
```



Other useful functions

NVL → Substitute a value for any NULLS, and a value for any fields that are not null
 NVL2 → Substitute a value for any NULLS, and a value for any fields that are not null
 NULLIF → Return true in the value is hull roject Exam Help
 TO_CHAR → Use to format https://eduassistpro.github.lo/ ful for arithmetic calculations)
 TO_NUMBER → Convert a ful for arithmetic calculations)
 SOUNDEX → Use to find values beach at edu_assist_pro
 CASE → Do different functions depending upon various conditions

Other useful functions (Demo)

```
☐ List all information about drinks
       SELECT * FROM DRINKS; -- a table you have created in Week 3 Lab
                       Assignment Project Exam Help
☐ Compare the price of all dri
                                                      8 dollars
       SELECT DRINK_NAM https://eduassistpro.github.io/
       CASE
         Add WeChat edu_assist_pro WHEN PRICE > 8 THEN 'The price is 8'
         WHEN PRICE = 8 THEN 'The price is 8'
         ELSE 'The price is under 8'
       END "PriceCheck"
       FROM DRINKS;
```

Useful Online Resources for SQL

Practice Exercises and Training Videos

Online Web Tutorials

DataCamp

Sign up is free

https://www.datacamp.com/ Assignment Project Exam Help

Highly Recommended: Intro to SQL for Data Science

Tutorials Point

https://www.tutorialspoint.com/sql/

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Training Videos

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LinkedIn Learning - Free access as a UNSW student: https://www.linkedin.com/learning/

Highly Recommended: Introduction to Oracle SQL Developer

Questions

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