COMM1822

Term 2 2022

Introduction to Databases for Business Analytics

Week 4 Restricting R
Data & Selected Single-Row Fun

Lecturer-in-Charge: Kam-Fung (Henry) Cheung
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                  Kathy Xu
PASS Leader: Srilekha Chandrashekara Kolaki

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Acknowledgement of Country

UNSW Business School acknowledges the Bidjigal (Kensington campus) and Gadigal (City campus) the traditional custodians of the lands where each campus is located.

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We acknowledge all Aboriginal and Torres St Islander Elders, past and present and thei communities who have shared and practiced their teachings over thousands of years including business practices.

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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

Agenda

❑ **Housekeeping & Feedback Survey**

❑ Week 4 Demo Lab Scripts

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❑ Week 4 Sandbox Acti

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COMM1822 Consultation

What	Who	When	How
Consultation with the LiC	Kam-Fung Cheung	Assignment Project Exam Help https://eduassistpro.github.io/ (ST) Add WeChat edu_assist_pro	Send an email to book a time: kf.cheung@unsw.edu.au

COMM1822 PASS Class

What	Who	When	How
PASS Class	Srilekha Kolaki	Online via	ps://au.bbcollab.com/guest/734c90ddf42d2868fc2304b801d82 s.kolaki@student.unsw.edu.au

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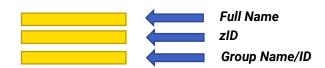
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Email Etiquette (reminder)

Your UNSW email

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Message body

Full Name

zID

Group Name/ID

Team Assignment

All GroupIDs were updated on Moodle

- **Please check the Excel spreadsheet on Moodle and join your Group NOW**

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If you do not join a group, https://eduassistpro.github.io/ ment on your own.

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Please refer to the assignment brief for ation

- **You are responsible to read the assignment brief**
- If you have any question, ask on Moodle

Housekeeping - Useful Online Resources

Practice Exercises and Training Videos

DataCamp
Sign up is free
https://www.datacamp.com/

Highly Recommended:
Intro to SQL for Data Science

Training Videos

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

Highly Recommended:
Introduction to Oracle SQL Developer

Online Web Tutorials

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

w3schools.com
/www.w3schools.com/sql/

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Feedback

We need your feedback NOW

We will analyse them and make changes if necessary.

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Please do not ignore

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This Week 4 Survey is your cha   feedback (unlike MyExperience)

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Your feedback is anonymous, and no respondents can be identified!

Please provide responses with **constructive feedback**:

https://forms.office.com/Pages/ResponsePage.aspx?id=pM_2PxXn20i44Qhnufn7o0KszAg PgNBAjB8ETnYCVsdUQkRGVEJTOVBEM0dDTkJGQ1hFU1RaNE5ZQS4u

Source: Wikipedia - Uncle Sam

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Week 4 Demo Script

Open Week 4 Demo Script (Oracle Demo) from

Restricting
ns

Demo scripts – covered in Tutorial
ALL parts of W4 lab manual are assessable.

- Restricting rows
  - The WHERE clause – Q1-3
  - Comparing values – Q4-6, Q10, Q12, Q15-16
  - IN, NOT, NULL, and L
  - Wildcards – 21-23
  - ORDER BY – Q24-27

- Single-Row Functions
  - Q3, Q4, Q7
  - Dual Table - A "dummy table – Q8, Q10
  - Null replacements and CASE – Q14, Q15, Q18

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Safety & Wellbeing - Break

- Rest Breaks: https://safety.unsw.edu.au/office-safety-toolkit/rest-breaks
- WorkRave at UNSW: https://safety.unsw.edu.au/sites/default/files/documents/UNSW_WorkRave_V1.0.pdf
- Setting up you Workstat_____.edu.au/setting-your-workstation-video
- Online Safety and Wellbeing Tutorial: h_____ent.unsw.edu.au/safety
- SafeWork 6 Simple stretches: https://www.safework.nsw.gov.au/resource-library/six-simple-stretches

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Break

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Agenda

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Week 3 Sandbox Script Issue

If you have problems in running the SQL queries in Week 3, e.g., errors in creating tables, insertion values error, etc. Please run the following queries to **drop the tables** first:

DROP TABLE COOKS;

DROP TABLE Produce;

DROP TABLE Orders;

DROP TABLE Food;

DROP TABLE Drinks;

DROP TABLE Supplier;

DROP TABLE Chef;

DROP TABLE Customer;

DROP TABLE Delivery_service;

DROP TABLE Discounts;

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Then, re-run all the queries in the W3 Sandbox Build Script (https://moodle.telt.unsw.edu.au/pluginfile.php/8038231/mod_resource/content/1/SandboxBuild.sql) to recreate the whole Korean BBQ Restaurant database.

Week 4 Sandbox Activity

1. List the customer_id and names of all customers whose names begin with "D". Display their names in lower case.

2. Create a list containing the dish_name and price for all food that costs more than $10. Round each price to the nearest $10. The rounded price should be formatted to display a dollar sign and three decimal places.

3. Create a list containing delivery_company_id and company_name. If the delivery company uses a "Car", display the text "FAST". If the delivery company uses a "Bike", display the text "SLOW". Use a column alias to show the heading "Speed" for this c

4. List the order_date for all orders tha̶   ̶1 and 17th August 2021. For each of these orders, determine the amount of time in years that h   een when they were placed and today's date. This calculated figure should be displayed in   e heading "Years Elapsed (2dp)" and formatted to display no more than two decimal places.

5. Create a unique list of customer_id and order_date from the ORDERS table. If the delivery_company_id field is null for any row, display the text "Dine In". If the delivery_company_id field is not null, display the text "Takeaway". Use the heading "Eat in?" for this column.

Join your breakout room to work in groups on the above queries - 25 minutes
Each group must present 1 query solution to the class (allocated randomly by your class facilitator)

Week 4 Sandbox Activity - Answers

1. List the customer_id and names of all customers whose names begin with "D". Display their names in lower case.

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SELECT customer_id, LOWER(nam

FROM CUSTOMER

WHERE name LIKE 'D%';

Week 4 Sandbox Activity - Answers

2. Create a list containing the dish_name and price for all food that costs more than $10. Round each price to the nearest $10. The rounded price should be formatted to display a dollar sign and three decimal places.

SELECT dish_name, TO_CHAR(ROU

FROM FOOD

WHERE price > 10;

Week 4 Sandbox Activity - Answers

3. Create a list containing delivery_company_id and company_name. If the delivery company uses a "Car", display the text "FAST". If the delivery company uses a "Bike", display the text "SLOW". Use a column alias to show the heading "Speed" for this column.

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SELECT delivery_company_id, com https://eduassistpro.github.io/

    CASE   Add WeChat edu_assist_pro

        WHEN delivery_type = 'Car' THEN 'FAST'

        WHEN delivery_type = 'Bike' THEN 'SLOW'

    END AS "Speed"

FROM delivery_service;

Week 4 Sandbox Activity - Answers

4. List the order_date for all orders that were placed between 5th April 2021 and 17th August 2021. For each of these orders, determin   at has elapsed between when they were placed and today's date. This   display a column with the heading "Years Elapsed (2dp)" and formatted to displa   two decimal places.

SELECT order_date, ROUND(MONTHS_BETWEEN(sysdate, order_date)/12, 2) "Years Elapsed (2dp)"

FROM ORDERS

WHERE order_date BETWEEN '05/APR/2021' AND '17/AUG/2021';

Week 4 Sandbox Activity - Answers

5. Create a unique list of customer_id and order_date from the ORDERS table. If the delivery_company_id field is null for any row, display the text "Dine In". If the delivery_company_id field is not null, display the text "Ta   n?" for this column.

```
SELECT DISTINCT customer_id, order_date,

NVL2(delivery_company_id, 'Takeaway', 'Dine In') AS "Eat in?"

FROM ORDERS;
```

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Team Assignment

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Please join your group and work on your
assignment.

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