

# COMM1822

Term 2 2022



## Introduction to Databases for Business Analytics

Assignment Project Exam Help

### Week 4 Restricting Rows and Sorting Data & Selected Single Row Function

<https://powcoder.com>

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Lecturer-in-Charge: Kam-Fung (Henry) Cheung

Email: [kf.cheung@unsw.edu.au](mailto:kf.cheung@unsw.edu.au)

Tutors: Theresa Tran

Liam Li Chen

Kathy Xu

PASS Leader: Srilekha Chandrashekara Kolaki

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# Week 4 Welcome Video

<https://powcoder.com>  
(for online classes)

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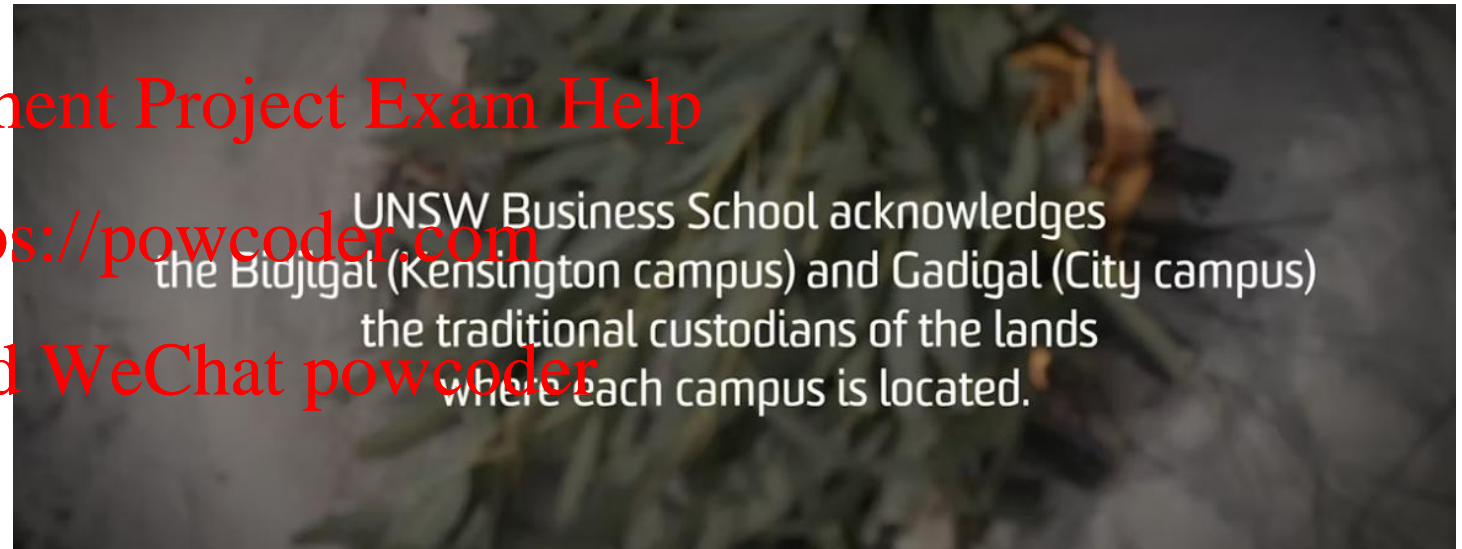
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# Acknowledgement of Country

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

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

# Agenda

- ❑ **Housekeeping & Feedback Survey**
- ❑ Week 4 Demo Lab Scripts  
**Assignment Project Exam Help**
- ❑ Week 4 Sandbox Activity  
**<https://powcoder.com>**
- ❑ Assignment Group Discussion  
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# COMM1822 Consultation

What	Who	When	How
Consultation with the LiC	Kam-Fung (Henry) Cheung	Tuesday 10.00 - 11.00 am (AEST)	Send an email to book a time: <a href="mailto:kf.cheung@unsw.edu.au">kf.cheung@unsw.edu.au</a>

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# COMM1822 PASS Class

What	Who	When	How
PASS Class	Srilekha Kolaki	Friday 10:00 – 11:00 am (AEST)	Online via <a href="https://au.bbcollab.com/guest/734c929b0ddf42d2868fc2304b801d82">https://au.bbcollab.com/guest/734c929b0ddf42d2868fc2304b801d82</a> Email: <a href="mailto:s.kolaki@student.unsw.edu.au">s.kolaki@student.unsw.edu.au</a>

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# Email Etiquette (reminder)

Microsoft Word ribbon: File, Message, Insert, Options, Format Text, Review, Help, Acrobat. Message ribbon includes: Undo, Clipboard, Paste, Basic Text, Names, Include, Attach File via Link, Tags, Dictate, Sensitivity, Editor, Immersive Reader, Polls, Viva Insights, New Meeting Poll, View Templates.

From: [Redacted] **Assignment Project Exam Help**

To: [Redacted]

Cc: [Redacted]

Subject: [COMM1822] [Redacted]

Dear [Redacted]

**Message body**

Best regards,

[Redacted] ← **Full Name**

[Redacted] ← **zID**

[Redacted] ← **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, you have to do the assignment on your own.  
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Please refer to the assignment brief for more information

- **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**

<https://www.w3schools.com/sql/>

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# Feedback

We need your feedback NOW

We will analyse them and make changes if necessary.

Please do not ignore **Assignment Project Exam Help**



Source: Wikipedia - Uncle Sam

**<https://powcoder.com>**

This Week 4 Survey is your chance to provide us with early 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\\_2PxXn20i44Qhnufn7o0KszAgPgNBAjB8ETnYCVsdUQkRGVEJTOVBEM0dDTkJGQ1hFU1RaNE5ZQS4u](https://forms.office.com/Pages/ResponsePage.aspx?id=pM_2PxXn20i44Qhnufn7o0KszAgPgNBAjB8ETnYCVsdUQkRGVEJTOVBEM0dDTkJGQ1hFU1RaNE5ZQS4u)**

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# Week 4 Demo Script

Open Week 4 Demo Script (Oracle Demo) from  
Assignment Project Exam Help  
Moodle

<https://powcoder.com>  
Restricting Rows, Single-row Functions  
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# 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 LIKE – Q17-20
  - 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](https://safety.unsw.edu.au/sites/default/files/documents/UNSW_WorkRave_V1.0.pdf)
- Setting up you Workstation: <https://powcoder.com>  
<https://safety.unsw.edu.au/setting-your-workstation-video>
- Online Safety and Wellbeing Tutorial: <https://student.unsw.edu.au/safety>
- SafeWork 6 Simple stretches:  
<https://www.safework.nsw.gov.au/resource-library/six-simple-stretches>



# Break

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Take a 5 minute break  
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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](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 column.
4. List the order\_date for all orders that were placed between 5th April 2021 and 17th August 2021. For each of these orders, determine the amount of time in years that has elapsed between when they were placed and today's date. This calculated figure should be displayed in a column with the 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(name) Name
```

```
FROM CUSTOMER
```

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```
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(ROUND(price,-1), '$999.999') "Price"  
FROM FOOD  
WHERE price > 10;
```

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# 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.

```
SELECT delivery_company_id, company_name,  
       CASE  
         WHEN delivery_type = 'Car' THEN 'FAST'  
         WHEN delivery_type = 'Bike' THEN 'SLOW'  
       END AS "Speed"  
FROM delivery_service;
```

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# Week 4 Sandbox Activity - Answers

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4. List the order\_date for all orders that were placed between 5th April 2021 and 17th August 2021. For each of these orders, determine the amount of time in years that has elapsed between when they were placed and today's date. This calculated figure should be displayed in a column with the heading "Years Elapsed (2dp)" and formatted to display no more than two decimal places.

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```
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 "Takeaway". Use the heading "Eat in?" for this column.

<https://powcoder.com>

```
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 (or breakout room) and work on your assignment.

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