

# COMM1822

Term 2 2022

## Introduction to Databases for Business Analytics

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### Week 7: Group Functions

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

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Tutors: Theresa Tran

Liam Li Chen

Kathy Xu

PASS Leader: Srilekha Chandrashekara Kolaki



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# Week 7 Welcome Video

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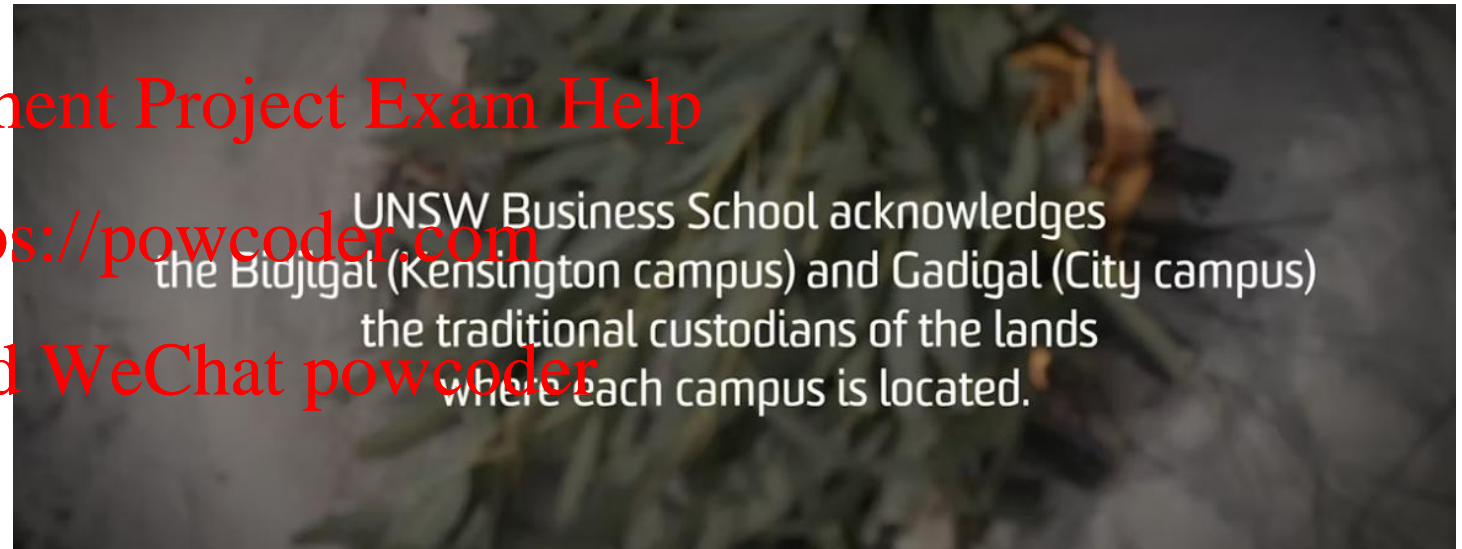
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# Acknowledgement of Country

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**
- ❑ Discussion of Group Functions  
*Assignment Project Exam Help*
- ❑ Week 7 Demo Script  
*<https://powcoder.com>*
- ❑ Week 7 Sandbox Activity  
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- ❑ Assignment Q/A

# 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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# Team Assignment Part B

- ❑ Start working on your Team Assignment Part B (if you have not started)
- ❑ Check the due date for your **Team Assignment Part B in the Assignment brief.**
- ❑ The Team Leader of each group must submit **both** the PDF file and the Zip file separately (the Zip file must **NOT** contain the PDF file)

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# Assignment Group SQL Accounts

- ❑ A separate Oracle SQL account was provided to each assignment group (Each assignment group will have 1 account)
- ❑ Complete the assignment SQL activities using the group account instead of your personal student SQL account (for **Part B only**)
- ❑ Do not change your group SQL account login password
- ❑ Disregard the existing DB in there.
- ❑ If more than one person works on a table and makes changes, this might create errors in the DB and the account. Please collaborate within the group who will be what and when!

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# Assignment – Database Implementation

❑ Populate the database with at least ten sample records in each table.

❑ Make sure your sample data can return the queries as specified in the assignment.

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- ❑ **Discussion of Group Functions**
- ❑ Week 7 Demo Script **Assignment Project Exam Help**
- ❑ Week 7 Sandbox Activity **<https://powcoder.com>**
- ❑ Assignment Q/A **Add WeChat powcoder**

# Week 7 Lab Manual Discussion

1. What is the purpose of the Group Functions and how might they be useful?
2. When might it be useful to summarise data at a group level?
3. What new clauses have been introduced?

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- ❑ Week 7 Sandbox Activity **<https://powcoder.com>**
- ❑ Assignment Q/A **Add WeChat powcoder**

# Week 7 Demo Script

Open Week 7 Demo Script (Oracle Demo) from  
Moodle

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# Break

Assignment Project Exam Help  
Take a 5 minutes break  
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# Agenda

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  - ❑ Week 7 Demo Script
  - ❑ **Week 7 Sandbox Activity**
  - ❑ Assignment Q/A
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# Week 7 Sandbox Activity

1. How expensive/cheap are the most expensive/cheapest foods?
2. Determine the average cost of all food items without associated allergies. The calculated average should be formatted to display a dollar sign and two decimal places.
3. Display the cheapest drink, most expensive drink, and average price of all drinks. The calculated numbers should be rounded to the nearest dollar and formatted to display a dollar sign. Use the column headings "Cheapest", "Dearest", and "AVERAGE".
4. Determine the average cost of food items prepared by each chef. The calculated averages should be formatted to one decimal place. Use the column headings "Chef Name" and "Average cost per chef". Sort the output by average cost in ascending order.
5. Return the chefs and their average cost from (4) where the average is in the range \$11 - \$15 inclusive.

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# Week 7 Sandbox Activity

1. How expensive/cheap are the most expensive/cheapest foods?

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```
SELECT min(price) "Cheapest", max(price) "Most expensive"  
FROM FOOD;
```

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# Week 7 Sandbox Activity

2. Determine the average cost of all food items without associated allergies. The calculated average should be formatted to display a dollar sign and two decimal places.

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```
SELECT TO_CHAR(AVG(price), '$99.99') "Average"  
FROM FOOD  
WHERE allergy IS NULL;
```

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# Week 7 Sandbox Activity

3. Display the cheapest drink, most expensive drink, and average price of all drinks. The calculated numbers should be rounded to the nearest dollar and formatted to display a dollar sign. Use the column headings "Cheapest", "Dearest", and "AVERAGE".

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SELECT TO\_CHAR(ROUND(min(price), 0), '\$999') "Cheapest",  
TO\_CHAR(ROUND(max(price), 0), '\$999') "Dearest",  
TO\_CHAR(ROUND(avg(price), 0), '\$999') "Average"  
FROM DRINKS;

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# Week 7 Sandbox Activity

4. Determine the average cost of food items prepared by each chef. The calculated averages should be formatted to one decimal place. Use the column headings "Chef name" and "Average cost per chef". Sort the output by average cost in ascending order.

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```
SELECT ch.name "Chef Name", ROUND(avg(f.price), 1) "Average cost per chef"
FROM FOOD f INNER JOIN COOKS c
ON f.food_id = c.food_id
INNER JOIN chef ch
ON ch.staff_id = c.staff_id
GROUP BY ch.name
ORDER BY avg(f.price);
```

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# Week 7 Sandbox Activity

5. Return the chefs and their average cost from (4) where the average is in the range \$11 - \$15 inclusive.

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```
SELECT ch.name "Chef Name", ROUND(avg(f.price), 1) "Average cost per chef"
FROM FOOD f INNER JOIN cooks c
ON f.food_id = c.food_id
INNER JOIN chef ch
ON ch.staff_id = c.staff_id
GROUP BY ch.name
HAVING avg(price) BETWEEN 11 AND 15;
```

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**Assignment Q/A** <https://powcoder.com>

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