

# COMM1822

Term 2 2022

## Introduction to Databases for Business Analytics

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## Week 5 SQL Joins: Joining Data from Multiple Tables

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 5 Welcome Video

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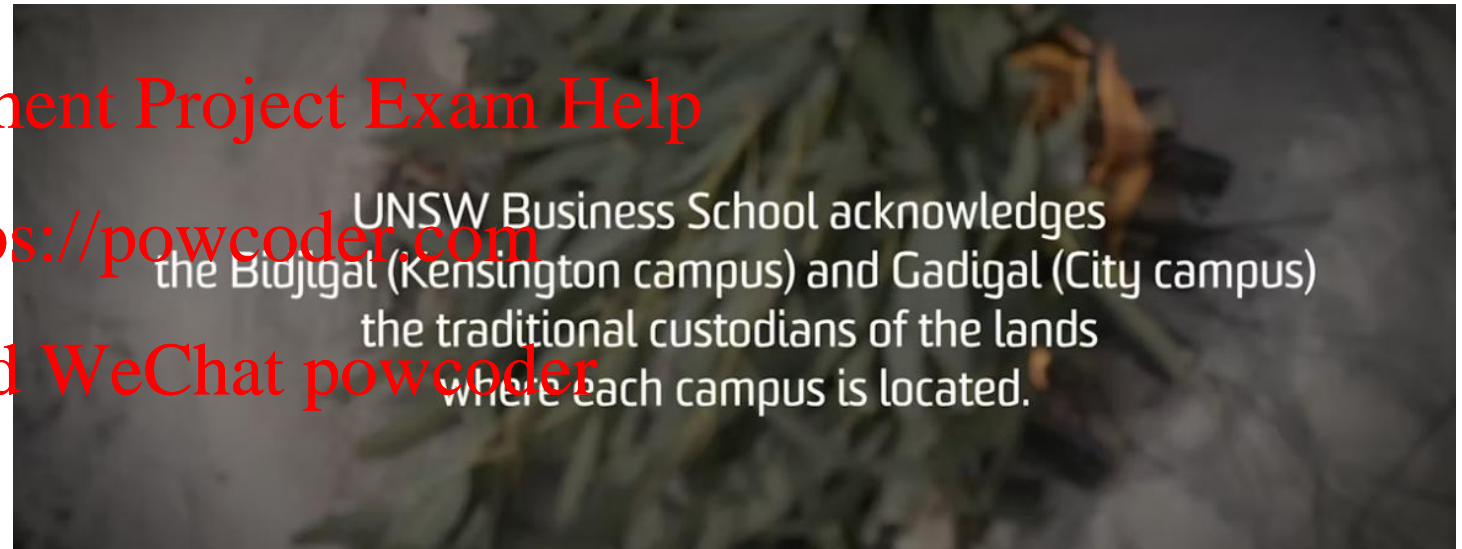
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# Acknowledgement of Country

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 SQL Joins **Assignment Project Exam Help**
- ❑ Week 5 Demo Script **<https://powcoder.com>**
- ❑ Week 5 Sandbox Activity **Add WeChat powcoder**

# 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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# Assignment Group SQL Accounts

- ☐ A separate Oracle SQL account will be 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

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# Feedback

Thank you for all who provided the feedback in week 4.

We are still collecting feedback

This is your chance to provide us with early feedback

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[https://forms.office.com/Pages/ResponsePage.aspx?id=pM\\_2PxXn20i44Qhnufn7o0KszAgPgNBAjB8ETnYCVsdUQkRGVEJTOVBEM0dDTkJGQ1hFU1RaNE5ZQS4u](https://forms.office.com/Pages/ResponsePage.aspx?id=pM_2PxXn20i44Qhnufn7o0KszAgPgNBAjB8ETnYCVsdUQkRGVEJTOVBEM0dDTkJGQ1hFU1RaNE5ZQS4u)

# Agenda

- ❑ Housekeeping
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- ❑ Week 5 Demo Script *<https://powcoder.com>*
- ❑ Week 5 Sandbox Activity *Add WeChat powcoder*

# Week 5 Lab Manual Discussion

1. What is the purpose of the queries and how might they be useful?
2. What new concept has been introduced?
3. What are the different types of joins?
4. In what scenarios might each type of join be useful?
5. What new clauses have been introduced?

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# Agenda

- ❑ Housekeeping
  - ❑ Discussion of SQL Joins
  - ❑ **Week 5 Demo Script** <https://powcoder.com>
  - ❑ Week 5 Sandbox Activity
- [Assignment Project Exam Help](#)  
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# Week 5 Demo Script

Open Week 5 Demo Script (Oracle Demo) from Moodle:

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- Query 1-11
- Break
- Query 12-20

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# Week 5 Demo Script

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Open Week 5 Demo Script (Query 1-11)  
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# Online Safety - 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 your 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 5 Demo Script

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Open Week 5 Demo Script (Query 12-20)  
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# Agenda

- ❑ Housekeeping
- ❑ Discussion of SQL Joins [Assignment Project Exam Help](#)
- ❑ Week 5 Demo Script <https://powcoder.com>
- ❑ **Week 5 Sandbox Activity** [Add WeChat powcoder](#)

# Week 5 Sandbox Activity

1. Create a list that displays each dish\_name and the name of the chef that cooked it. Sort the output by dish\_name in descending order.
2. Produce a list of all customers who have ordered the dish "Beef Inside Skirt" after 20<sup>th</sup> March 2021. Include the customer's name and the date of their order in the output.
3. Display a list of every drink which has been ordered by customers. Include the name of the company that supplied it, the name of the customer who ordered it, and the date when they ordered the drink.
4. Provide a list of all customers (ID + Name) who did NOT receive a discount on their order (i.e. there is no discount value).

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# Week 5 Sandbox Activity

1. Create a list that displays each dish\_name and the name of the chef that cooked it. Sort the output by dish\_name in descending order.

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```
SELECT f.dish_name, c.name "Cooked By"  
FROM FOOD f  
INNER JOIN COOKS ck  
USING (food_ID)  
INNER JOIN chef c  
USING (staff_ID)  
ORDER BY f.dish_name DESC;
```

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# Week 5 Sandbox Activity

2. Produce a list of all customers who have ordered the dish “Beef Inside Skirt” after 20<sup>th</sup> March 2021. Include the customer’s name and the date of their order in the output.

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```
SELECT c.Name "Customer Name", o.order_date "Order Date"
```

```
FROM customer c
```

```
INNER JOIN orders o
```

```
USING (customer_ID)
```

```
INNER JOIN food f
```

```
USING (food_ID)
```

```
WHERE f.dish_name = 'Beef Inside Skirt'
```

```
AND o.order_date >= '20-MAR-21';
```

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# Week 5 Sandbox Activity

3. Display a list of every drink which has been ordered by customers. Include the name of the company that supplied it, the name of the customer who ordered it, and the date when they ordered the drink.

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```
SELECT d.Drink_Name, s.supplier_name, c.name "CUSTOMER_NAME", o.order_date  
FROM Drinks d  
INNER JOIN orders o  
USING (drink_ID)  
INNER JOIN customer c  
USING (customer_ID)  
INNER JOIN supplier s USING (supplier_ID);
```

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# Week 5 Sandbox Activity

4. Provide a list of all customers (ID + Name) who did NOT receive a discount on their order (i.e. there is no discount value).

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```
SELECT c.customer_id "ID", c.name "Name"  
FROM customer c  
LEFT JOIN orders o  
on c.customer_id = o.customer_id  
WHERE o.Discount_ID IS NULL;
```

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# Reminders

- No classes next week (week 6), classes resume in week 7.
- Start working on your Part B assignment
- Any group conflicts (unequal contribution) must be raised ASAP with the LiC and the tutor.

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