

COMM1822

Term 2 2022

Introduction to Databases for Business Analytics

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Week 3 Table Creation and Basic SQL Functions

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

Email: kf.cheung@unsw.edu.au

Tutors: Theresa Tran (Tutor-in-Charge)

Liam Li Chen

Kathy Xu

PASS Leader: Srilekha Chandrashekara Kolaki



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Week 3 Welcome Video

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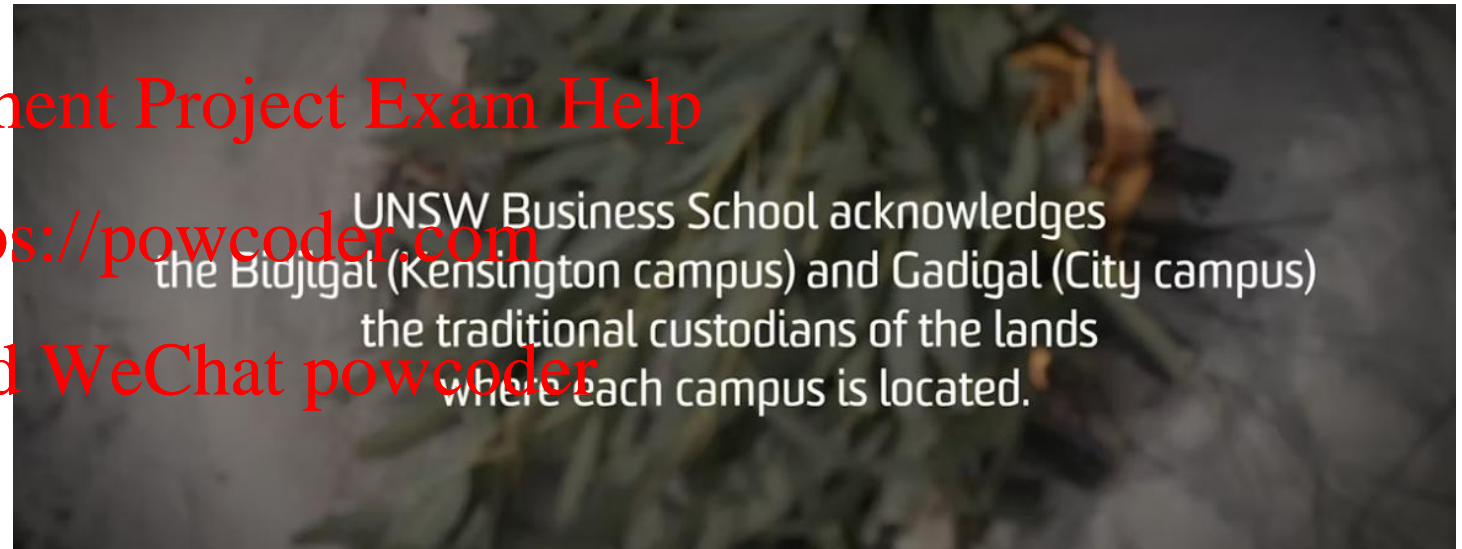
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Acknowledgement of Country

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
- ❑ Setting Up Oracle
- ❑ Week 2 Revision Activity
- ❑ Discussion of Basic SQL Functions and Table Creation
- ❑ Week 3 Demo Script
- ❑ Week 3 Sandbox Activity

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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: kf.cheung@unsw.edu.au

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COMM1822 PASS Class

What	Who	When	How
PASS Class	Srilekha Kolaki	Friday 10:00 – 11:00 am (AEST)	On-campus BUS 216 Online via MS Teams Email: s.kolaki@student.unsw.edu.au

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Group Assignment

- ❑ Every student must be in their respective assignment group
 - ❑ If you did not connect or you do not know your group, speak to your tutor immediately
- ❑ End of this tutorial session is the final deadline to join a group

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- ❑ Week 3 Sandbox Activity

Setting Up Oracle

- ❑ To download SQL developer –Moodle & e-mail
- ❑ Usernames and passwords have been sent to your UNSW email account
- ❑ Connection details:

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The screenshot shows the 'Oracle' connection configuration window in SQL Developer. The 'Connection Name' is 'oracle.business'. The 'Username' is 'z5048183' and the 'Password' is masked with asterisks. The 'Save Password' checkbox is checked. The 'Connection Type' is 'Basic' and the 'Role' is 'default'. The 'Hostname' is 'oracle.business.unsw.edu.au', the 'Port' is '1521', and the 'Service name' is 'pdb.oracle.business.unsw.edu.au'. The 'OS Authentication' and 'Kerberos Authentication' checkboxes are unchecked. At the bottom are buttons for 'Save', 'Clear', 'Test', 'Connect', and 'Cancel'.

Oracle via MyAccess

❑ If you have issues on your laptop, please access Oracle SQL Developer via MyAccess:

❑ <https://www.myaccess.unsw.edu.au/>

❑ To logon to MyAccess: <https://aaa-access.unsw.edu.au/Citrix/aaaWeb/>

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Useful Online Resources

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

- ❑ **w3schools.com**

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

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- ❑ Week 3 Sandbox Activity

ER Modelling Reminders

- ❑ Remember to draw all your attributes, it is not enough to just draw the entity and relationships
- ❑ Primary keys are underlined
- ❑ Foreign keys are dotted underlined
- ❑ Optional relationships are reflected by a cardinality of (0,N) or (0,1).
- ❑ Composite Entity is composed of the PKs of the original entities
- ❑ Composition Entities may contain additional attributes

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Week 3 Lab Manual Discussion

- ☐ What is SQL?
 - ☐ What is the basic structure of a SQL statement?
 - ☐ What SQL functions have been introduced?
 - ☐ What do these functions allow you to do?
 - ☐ How do you create a table in SQL?
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Week 3 Demo Script

Open Week 3 Demo Script (Oracle Demo) from
Moodle

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Break

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Take a 5 minute break
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Week 3 Sandbox Activity

1. Display a list of all data contained in the FOOD table.
2. Create a list of customer names
3. List the name and cook time of each dish in the FOOD table. Use the column headings "Name of Dish" for the dish_name field and "Preparation Time" for the cook_time field.
4. Create a list containing the supplier's name, the supplier's telephone number, and the category of produce they provide. The output should be displayed in the following format: "[Supplier Name] provides [category] and can be contacted on [telephone number]". Use a column alias to show the heading "Summary of Supplier" in the output.
5. Create a list of supplier categories – do not repeat items.
6. List the cook times for each food (in minutes), and then again in hours. Label the columns appropriately.
7. All food delivery service fees are increased by 10% as a result of new taxes. List the new delivery fees.
8. Create a new table – call it Dummy_Table, with fields "dummy_int" (integer) and "dummy_char" (varchar of length 30). Then Drop the table.
9. Restore the Farm table, and list all the data inside it.

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Week 3 Sandbox Activity - SOLUTION

1. Display a list of all data contained in the FOOD table.

```
SELECT * FROM Food;
```

2. Create a list of customer names.

```
SELECT Name FROM customer;
```

3. List the name and cook time of each dish in the FOOD table. Use the column headings "Name of Dish" for the dish_name field and "Preparation Time" for the cook_time field.

```
SELECT dish_name AS "Name of Dish", cook_time AS "Preparation Time" FROM food;
```

4. Create a list containing the supplier's name, the supplier's telephone number, and the category of produce they provide. The output should be displayed in the following format: "[Supplier Name] provides [category] and can be contacted on [telephone number]". Use a column alias to show the heading "Summary of Supplier" in the output.

```
SELECT supplier_name || ' provides ' || category || ' and can be contacted on ' || phone_number FROM supplier;
```

5. Create a list of supplier categories – do not repeat items.

```
SELECT DISTINCT category FROM supplier;
```

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Week 3 Sandbox Activity - SOLUTION

6. List the cook times for each food (in minutes), and then again in hours. Label the columns appropriately.

```
SELECT dish_name, cook_time AS "Cook Time in Minutes", cook_time / 60.0 AS "Cook Time in Hours" FROM food;
```

7. All food delivery service fees are increased by 10% as a result of new taxes. List the new delivery fees.

```
SELECT company_name, delivery_type, fee * 1.1 AS "New Fee" FROM delivery_service;
```

8. Create a new table – call it *Dummy_Table*, with fields “dummy_int” (integer) and “dummy_char” (varchar of length 30). Then Drop the table.

```
CREATE TABLE Dummy_Table  
(  
    dummy_int INT,  
    dummy_char VARCHAR(30)  
);
```

```
DROP TABLE Dummy_Table;
```

9. Restore the Farm table, and list all the data inside it.

- FLASHBACK TABLE employees_hist_2011 TO BEFORE DROP;
- There should be no data/table.

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