**Te Hoe Rorohiko**

**Department of Enterprise and Digital Innovation**

Bachelor of Information and Communication Technologies

Database Design

BCDE103

Assignment Two

Design, Scripting, Testing, Security, Backup and Restore

Semester Two 2021

Due date: Various (4 parts in total)

Time: 5.00pm

Instructions:

Hand in a zipped portfolio of scripts, screen shots and other documents as requested during the semester.

**TOTAL MARKS: 100**

Student Name/ID

*Ara and its faculty members reserve the right to use electronic means to detect and help prevent plagiarism. Students agree that when submitting this assignment, it may be subject to submission for textual similarity review to Turnitin.com.*

Submissions received late will be subject to a penalty of 10% of the student’s mark per working day.

This assignment is worth **50%** of the total marks for this course.

This paper has ***three*** (3) pages including the cover sheet.

**BCDE103 Database Design – Monday 18 October at 5:00 pm**

**Assignment Two – Portfolio Appendix B**

**Restore Database**

* Restore the Model Database back up provided before you start writing the queries.

**(1 Mark)**

**Queries (24 Marks)**

Q1. List the people who has booked room number 101 on 17th November 2016.

Q2. Give the booking date and the number of nights for guest 1540.

Q3. List the arrival time and the first and last names for all guests due to arrive on 2016-11-05, order the output by time of arrival.

Q4. Give the daily rate that should be paid for bookings with ids 5152, 5165, 5154 and 5295. Include booking id, room type, number of occupants and the amount.

Q5. Find who is staying in room 101 on 2016-12-03, include first name, last name and address.

Q6. For guests 1185 and 1270 show the number of bookings made and the total number of nights. Your output should include the guest id and the total number of bookings and the total number of nights.

Q7. Show the total amount payable by guest Ruth Cadbury for her room bookings. You should JOIN to the rate table using room\_type\_requested and occupants.

Q8. Calculate the total bill for booking 5346 including extras.

Q9. For every guest who has the word “Edinburgh” in their address show the total number of nights booked. Be sure to include 0 for those guests who have never had a booking. Show last name, first name, address and number of nights. Order by last name then first name.

Q10. For each day of the week beginning 2016-11-25 show the number of bookings starting that day. Be sure to show all the days of the week in the correct order.

Q11. Show the number of guests in the hotel on the night of 2016-11-21. Include all occupants who checked in that day but not those who checked out.

Q12. List the rooms that are free on the day 25th Nov 2016.

At this point in time you should set up a folder that will contain your outcomes. You should make sure that you clearly name all files and scripts.

**Marks for this assessment (Appendix B) (1 + 24 = 25 marks)**

Restore (1 mark)

Query 1 (2 marks)

Query 2 (2 marks)

Query 3 (2 marks)

Query 4 (2 marks)

Query 5 (2 marks)

Query 6 (2 marks)

Query 7 (2 marks)

Query 8 (2 marks)

Query 9 (2 marks)

Query 10 (2 marks)

Query 11 (2 marks)

Query 12 (2 marks)