### UHI_Logo_CMYK_Sm

**Relational Database Management Systems – Report Template  
HND Computer Science**

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| **Module Code/title:** | H16W 35 Relational Database Management Systems | | |
| **Module code**: | H16W 35 | **Word-count:** | N/A |
| **Date due/time:** | Friday 19th March 2021 11.59pm | **Date submitted:** |  |
| **Student candidate Name:** |  | | |
| **Student ID:** |  | | |

**Completing your assessment:**

You must submit all documentation in the appropriate Network & Information Security assessment folder on the VLE. The name the file should be **studentid\_web2.docx**. So for example, if your Student Id is: 0123456 then the file name will be 0123456\_web2.docx

**Declaration of originality and authorisation to hold this assessment electronically and verify that it is original:**

UHI recognises that plagiarism, where deliberately engaged in, is unacceptable and is considered serious academic malpractice. **Students are responsible for ensuring the work they submit is their own**. If you have any queries you should contact your Tutor or Student Adviser before submitting your assessment.

**By submitting this assessment I declare that the attached piece of work is my own**. I have acknowledged all the sources I have consulted and where I have used words which are not my own, I have clearly indicated this in the references.

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| --- | --- | --- | --- |
| **Student candidate number:** |  | **Date:** |  |

**Assessment Evidence Required for Outcome 2 and Outcome 3:**

1. a. List / note any questions and the answers given by the client (lecturer)

b. List all **assumptions** you make. Make sure to highlight:

* 1. any **structural** rules e.g. can items be on more than one menu? Are there specific staff roles?
  2. any **functional** rules i.e. does/should the system provide any alerts?

1. **ERD Model** (Electronic Workbench Model / or similar diagram)
2. **Create table structures** corresponding to your design. Show field names, data types etc
3. Add appropriate test data to each of your tables.
4. Document your **SQL script.** This includes creating tables and inserting data.

**Assessment Evidence Required for Outcome 4:**

**Create and show appropriate SQL scripts and show results for the following queries**:

1. List **all** customers
2. List **staff** **forenames**, **surnames** and their **role**
3. List the **description** and **price** of Items that cost less than £**1.60**
4. List **staff** members whose surname is **Robertson**
5. List **all orders** that are paid for by **cash**
6. **Count** how many orders were taken in total in October
7. List the **Order ID**, and **staff first name** and **surname** where the order payment type was **card**
8. List the **average price** of all items
9. List all **stock items** where stock quantity is **less than** **120**
10. List all **customers** and indicate what *payment type* they have used to place an order. **List these by cash, then by card**
11. Using an appropriate **JOIN**, list the customers who have placed an order
12. Using an appropriate **JOIN**, list the staff managers who have taken cash orders
13. List the **customers, orders, payment type** and the **staff** who have taken their orders. **Order by payment type**. Demonstrate the use of an **ALIAS**
14. Create a **View** called [Cash Orders] that lists all the **orders** paid by **cash**.