Unit:
Databases

Assignment title:
Universal Conference Management

December 2015 – Sample Assignment

Marking Scheme

Markers are advised that, unless a task specifies that an answer be provided in a particular form, then an answer that is correct (factually or in practical terms) **must** be given the available marks. If there is doubt as to the correctness of an answer, the relevant NCC Education materials should be the first authority.

This marking scheme has been prepared as a **guide only** to markers and there will frequently be many alternative responses which will provide a valid answer.

Each candidate's script must be fully annotated with the marker's comments (where applicable) and the marks allocated for each part of the tasks.

Throughout the marking, please credit any valid alternative point.

Where markers award half marks in any part of a task, they should ensure that the total mark recorded for the task is rounded up to a whole mark.

Task	Guide	Maximum Marks
1	**a) Entity model (30 marks)** 1 to 9 marks: There is little correct beyond a few of the entities. 10 to 15 marks: If choice of entities is correct (alternative names are acceptable) but most relationships are wrong then give 1 mark for each correct entity. Give additional marks for any correct relationships. 16 to 24 marks: If largely correct but still with some mistakes, give 1 mark for each correct entity and attribute. 25 to 30 marks: Excellent solution that is correct in all but a few details. Guide: The core of the system is the Events, Customers and Items (of equipment). It should be possible to set up Events and assign them to Customers. Events should be easily associated with multiple members of staff and multiple items of equipment. **b) Data dictionary (10 marks)** The data dictionary should match the ER. It should clearly indicate Primary Keys and Foreign Keys. 1 mark for each correct entity with attributes, PKs and FKs defined up to 9 marks. Plus 1 mark if all correct.	**40**

Task	Guide	Maximum Marks
2	a) Candidate has created all the tables using SQL. Candidate has shown their 'create table' scripts and the finished tables. (10 marks) b) Candidate has entered data on all the events shown in the assignment. (3 marks) c) Candidate has entered data for five customers and associated them with events. Note that a customer might have more than one event associated with him or her. (3 marks) d) Candidate has entered data on staff and items taken from the assignment. Candidate has given a listing of this (3 marks) e) Candidate has written a query that selects all the events ordered by a particular customer. (3 marks) f) Candidate has written a query that selects the staff and items assigned to an event. (3 marks) g) Candidate has written a query that selects all the customers' details for events that require a laptop. (4 marks) h) Candidate has written a query that counts all the birthdays that need equipment from Edison Sound and Light. (4 marks) i) Candidate has written a query that shows all the events and their customers that need a waiter. (4 marks) j) Candidate has written an update statement for the item table so that Item 2 is no longer a laptop but a 'tablet'. (4 marks) k) Candidate has written an update statement for the staff table so that Tara Patel is now known as Tara Williams. (4 marks)	**45**
3	This discussion should show an understanding of what the original requirements were (up to 5 marks), include a discussion of how the initial design attempted to meet them; (up to 5 marks) and an overall assessment of how well the requirements have been met (up to 5 marks). Alternatively structured discussions should be credited.	**15**
		Total: 100 Marks

Learning Outcomes matrix

Task	Learning Outcomes assessed	Marker can differentiate between varying levels of achievement
1	3, 4	Yes
2	5	Yes
3	3	Yes

Grade descriptors

Learning Outcome	Pass	Merit	Distinction
Understand the concepts associated with database systems	Demonstrate adequate level of understanding	Demonstrate robust level of understanding	Demonstrate highly comprehensive level of understanding
Understand the concepts associated with the relational model	Demonstrate adequate level of understanding	Demonstrate robust level of understanding	Demonstrate highly comprehensive level of understanding
Understand how to design and develop a database system	Demonstrate adequate level of understanding	Demonstrate robust level of understanding	Demonstrate highly comprehensive level of understanding
Be able to develop a logical database design	Show adequate development	Show sound and appropriate development	Show innovative and highly appropriate development
Be able to develop a database system using SQL	Show adequate development	Show sound and appropriate development	Show innovative and highly appropriate development