FINAL
ALTERNATIVE ASSESSMENT

(COVER PAGE)

Session	:	**August 2020**
Programme	:	Diploma in Information Technology (DITN) Diploma in Computer Science (DCS)
Course	:	**ICT1104: Database Management**
Date of Examination	:	12 December 2020 (Saturday)
Time	:	8.00am – 10.30am Reading Time : Nil
Duration	:	2 Hours 30 Minutes

Special Instructions :

This paper consists of **THREE (3)** questions. You are required to answer **ALL** questions in the foolscap papers.

Material permitted :

Non-Programmable Scientific Calculator

Materials provided :

Nil

Examiner(s)	:	**Light Lau Teng Lye,** Mahaletchumy, Nursyarizan Mohd Akbar
Chief Moderator	:	Azmir Ismail

*This paper consists of **3** printed pages, including the cover page*

DIPLOMA IN INFORMATION TECHNOLOGY PROGRAMME (DITN)
DIPLOMA IN COMPUTER SCIENCE PROGRAMME (DCS)
ICT1104: DATABASE MANAGEMENT
FINAL ALTERNATIVE ASSESSMENT: AUGUST 2020 SESSION

Instructions:

This paper consists of THREE (3) questions. You are required to answer ALL questions in the foolscap papers.

1 Suppose you are involved in developing a database system for the Restaurant database of KLM company. The operation of the restaurant can be described as follows**:**

- They have a file of ordering that they provide to their customers. Each type of food has a unique food code, a cost, and quantity.
- They have a file of customers. Each customer is given a unique customer number. This file also contains customer names, and total number of customers.
- A customer may make zero, one or more orderings at a time, and an ordering is always placed by one customer alone. Information as to ordering includes the order date, the total price, quantity and the cost. The ordering total price is quantity multiplied by the cost.
- A ordering may involve one or more than one type of food, and a type of food may be involved in more than one ordering.

Given the above information, draw an ER diagram for this Company. Identify and label the primary key(s) of each entity, relationships and the foreign keys required for creating the relational model.

(40 marks)

2

Attribute	**Record 1**	**Record 2**	**Record 3**	**Record 4**	**Record 5**
INV_NUM	200347	200347	200347	200348	200349
PROD_NUM	PN-123MN	RS-345KN	MN-120QY	BG-345UN	RS-207TT
SALE_DATE	15-Jan-2020	15-Jan-2020	15-Jan-2020	15-Jan-2020	16-Jan-2020
PROD_ DESCRIPTION	Sofa Bed	Dining Set	TV set	Garden set	Sofa
VEND_CODE	210	210	300	210	157
VEND_NAME	Best S/B	Nice S/B	Living Well S/B	Comfort S/B	Heaven S/B
QUANT_SOLD	10	8	13	12	20
PROD_PRICE	RM49.95	RM3.45	RM39.99	RM49.95	RM87.75

Luxury Furniture Manufacture (LFM) Bhd, was set-up in Jan 2019. The retail outlet was conveniently located in Paradise Mall, Balakong, Selangor to offer a complete range of furniture product. Table 1 shows the examples of the sales invoices record which requires normalization process. You as the database administrator, normalize the above table from 1 Normal Form (1NF), 2NF and 3NF.

(30 marks)

3a) Write a SQL command that will create **Products** table which shown in below.

Products

ProNo	ProName	ProQty	ProCost
20	Monitor	4,000	1100.50

(5 marks)

3b) Write a SQL command to insert the following information into the Question 2(a) table: product no = 138, product name = CPU, product quantity = 20, sales product cost = 2000.

(5 marks)

3c) Write a SQL command to give RAM product 40% discount.

(5 marks)

3d) Write a SQL command to update product Hard Disk record as follows: ProNo = 317 and ProQty = 2010 units.

(5 marks)

3e) Write a SQL command to remove CPU's record.

(5 marks)

3f) List out how many products are available in this company with descending order in product name.

(5 marks)

~THE END~