SOUTH EASTERN UNIVERSITY OF SRI LANKA
FIRST EXAMINATION IN BACHELOR OF INFORMATION AND COMMUNICATION TECHNOLOGY - 2018/2019
SEMESTER – I, AUGUST 2021

CIS 11051 – PRACTICAL FOR DATABASE DESIGN

Answer all Questions **Time Allowed: 03 hours.**

Instruction: copy your SQL syntax or take a screenshot of SQL syntax for each question in word file with your registration number and convert to pdf, submit your pdf file with your registration number

01. The shop keeper needs manage Database called Sold to store the all the details about sold out and remaining products in Microsoft Access.

i. Create a database named "Sold _ICT18xxx".

ii. Create a table "Sold" to store the details of products. Use the following table structure.

Field Name	Data Type	Field Size/Format
Pro_Id	Auto number	Long Integer
Pro_Name	Text	20
Unit Price	Currency	Currency
Total No.of products	Number	Long Integer
No.of.sold out product	Number	Long Integer
Remaining	Number	Long Integer

iii. View a structure of the table "Sold".

iv. Insert the following records to the table "Sold"

Pro_Id	Pro_Name	Unit Price	T.N.O. products	N.O.S products	Remaining
100	Chocolate	125	120	75	45
101	Toffee	100	110	98	12
102	Chocolate	280	140	85	55
103	Cream	165	145	96	49
104	Tea powder	210	220	185	35
105	Biscuits	155	320	295	25

v. Display the entire details of all the sold out and remaining products.

vi. Filter the records which have unit price more than 150.

vii. Filter the records which have Total number of products (T.N.O. products) between 150 and 250.

viii. Sort the record in ascending order based on No of sold products **(** N.O.S products)

ix. Create a query from above Sold table to select record which product name (Pro_Name) is chocolate.

x. Create a query from above Sold table to select Pro_Id, Pro_Name of products which having remaining unit more than 45.

xi. Create Form named "sold out products" with Combo Box in Product Name (Pro_Name) from Sold.

xii. Create a report for the table "Sold"

[Total 100 marks]

02. University needs to stores the student details in database. Using a SQL perform the task.

i. Create the database student

ii. Create a table student

iii. Insert the values given in the student table.

Student

RegNo	**Name**	**City**
S001	Kamal	Colombo
S002	Raja	Kandy
S003	Hema	Kandy
S004	Ravi	Colombo
S005	Athullya	Galle

iv. Display the data in the STUDENT table.

v. Select the record who name start with letter R

vi. Select the name of the students who lives in Kandy

vii. Select the details of student who has the name of the city end with latter O.

viii. Select the city name of the student who has Registation number (Regno) S004.

ix. Create another table named and insert the following values and add the proper constrain.

Table: Student

Reg No	**Name**	**City**

Table: department

Depid	**Reg No**	**Major**

Department

Depid	**Reg No**	**Major**
D001	S002	ICT
D002	S001	ICT
D003	S005	English
D004	S004	Maths
D005	S003	Physics

x. Retrieve the student name and their major.

[Total 100 marks]

03) ABX is the automobile manufacturing company. These company need to store the data in the database. The customers details store in the customer table and their orders placed and available products are stored in order and products table respectively. (Use the sql)

Table: customer

C_id	**Name**	**City**
RL102	Atlee	London
DE003	Sam	Berlin
RD456	Ken	Mexico
FG768	Hall	Luxemburg
SD908	Mark	London

Table: Products

P_id	**P_name**	**Unit price**	**avilable**
CO786	Tyre	156	56
VF456	Battery	45	79
BF234	Muffler	67	87
ST102	Gear box	89	90

Table: order

O_id	**C_id**	**P_id**	**Quantity**
P123	SD908	ST102	45
P324	DE003	BF234	25
P432	RL102	CO786	78

i. Create the database called ABX

ii. Create the above given table

iii. Insert the values into the tables.

iv. Add the appropriate constrains to tables.

v. Find the maximum quantity of order.

vi. Calculate the total available products.

vii. Select the product name which has the minimum unit price.

viii. What is the current net value ABX company.

ix. Display the bill of order placed with the O_id.

x. Retrieve the email id of each customers. The email id like Name@gmail.com. Write a query to display the email id with their city.

xi. Find out the costumers' details who placed an order.

[Total 100 marks]

**** END ****