



**SOUTH EASTERN UNIVERSITY OF SRI LANKA
FIRST EXAMINATION IN BACHELOR OF INFORMATION AND
COMMUNICATION TECHNOLOGY 2021/2022
SEMESTER – I**

CIS 11051 – PRACTICAL FOR DATABASE DESIGN

Answer all Questions

Time: 03 hours

Instructions:

- Create a folder in the desktop with your registration number.
- Database created for question 01 should be saved with in the folder you created.
- Copy your SQL syntax or take a screenshot of SQL syntax for question 01 in word file with proper numbering and convert it to pdf and saved in the same folder in the desktop.
- Frequently save your work

Question 01:

'Laavin E-Hotel Management System' stores details available in various parts of country and allows guests to reserve rooms online. The following is the schema of the database maintained by them.

For the each question, write SQL statements and execute them display the output.

1. Create a database named as "*Hotel Management System*".
2. Create four tables namely Hotel, room, guest given in the below schema.

Hotel (*hotelNo*, *hotelName*, *City*)

Room (*roomNo*, *hotelNo*, *type*, *price*)

Guest (*guestNo*, *guestName*, *guestAddress*)

Booking (*hotelNo*, *guestNo*, *dateFrom*, *dateTo*, *roomNo*)

3. Apply appropriate PRIMARY KEY and FOREIGN KEY constraint to the tables.
4. Display the structure of guest and booking table.
5. Insert the following records in to each table.

References
reference

Rifara

Table: Hotel

<i>hotelNo</i>	<i>hotelName</i>	<i>City</i>
H111	Cinnamon Grand	Colombo
H112	Cinnamon Lakeside	Colombo
H113	Hilton Residence	Colombo
H114	Jetwing Hotel	Dambulla
H115	Elephant Corridor Hotel	Dambulla
H116	The Hideout Sigiriya	Sigiriya

Table: Room

<i>roomNo</i>	<i>hotelNo</i>	<i>type</i>	<i>Price</i>
1	H111	S	\$ 90
3	H111	D	\$ 180
2	H112	S	\$ 150
8	H113	D	\$ 150
5	H115	D	\$ 200
7	H116	S	\$ 400

Table: Guest

<i>guestNo</i>	<i>guestName</i>	<i>guestAddress</i>
G111	Jayasinghe	Kandy
G112	Mohamed	Kandy
G113	Chathurani	Ambalangoda
G114	Satheesh	Vavuniya

Table: Booking

<i>hotelNo</i>	<i>guestNo</i>	<i>dateFrom</i>	<i>dateTo</i>	<i>roomNo</i>
H116	G111	2021-07-01	2021-07-30	8
H111	G112	2022-08-01	2022-08-01	1
H115	G114	2020- 09- 10	-	5

6. List out the full details of all room.
7. Add a new column as guest_CarPark after guest_No field in guest table.
8. Apply DEFAULT constraint as "Ground floor" to the guest_CarPark.

9. List out the full details of all hotels in Colombo.
10. Display first two records from booking table.
11. List out the names and address of all guests in Kandy, alphabetically ordered by guest name.
12. List out all double rooms with a price below \$250.00 per night, in ascending order of price.
13. How many hotels are there in each city?
14. What is the average price of a single room?
15. List the price and type of all rooms at the Cinnamon Grand?
16. Display the number of rooms in each hotel in Colombo.

[200 Marks]

Question 02:

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

1. Create a database named "Sold_ICT20XXX".
2. Create a table "Sold" to store the details of products. Use the following table structure.

Field Name	Data Type
Pro_id	Auto number
Pro_Name	Text
Unit Price	Currency
Total No.of product	Number
No.of sold out product	Number
Remaining	Number

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

Pro_id	Pro_Name	Unit price	Total No.of.product	No.of sold out product	Remaining
100	Chocolate	125	120	75	45
101	Toffee	100	110	98	12
102	Cream	165	145	96	49
103	Tea powder	210	220	185	35
104	Biscuits	155	320	295	25
105	Chocolate	280	140	85	55

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

5. Sort the records in ascending order based on No.of sold products.
6. Create a query from above sold table to select Pro_id,Pro_Name of products which having remaining unit more than 45.
7. Create a Form named "sold out products" with Combo Box in product Name (Pro_Name) from sold.
8. Create a report for the table "Sold".

[100 Marks]