



IS1110 Database Management

Lab Sheet 02

(SQL - DDL)

Question 1

1. Create a database named “ABC_Company”.
2. Create the following table within the above created database.
(use suitable primary key and data types for the columns).

DepartmentID	Department
D001	IT
D002	HR
D003	Marketing

3. Modify the column “Department” to “DeptName”.
4. Display all the records in the “Department” table.
5. Add a new column named “No_Employees”.
6. Modify the table adding the given values to the “No_Employees” column.

DepartmentID	DeptName	No_Employees
D001	IT	20
D002	HR	5
D003	Marketing	8

7. Modify the column name “DepartmentID” to “DeptName”.
8. Display all the records of the table.
9. Drop the column “No_Employees”.
10. Display the table.

Question 2

1. Display all the current databases.
2. Create a database named “LearningCenter”.
3. Display the current database list.
4. Create the following table structures within the LearningCenter database.
 - a. Use suitable data type for each columns
 - b. Include a suitable primary key for each table.

CourseID	Course
C001	CAA
C002	FIT
D003	DIT

StudentID	Fname	Lname
LC0001	Dumeesha	Thathsarani
LC0002	Kelum	Perera
LC0003	Lasith	Madhushan
LC0004	Heshan	Bagya
LC0005	Achini	Nimasha

5. Insert the given data of each table.
6. Add a new column named “email” to the “Student” table.
7. Modify the “Student” table adding following data to the “email” column.

StudentID	Fname	Lname	email
LC0001	Dumeesha	Thathsarani	dt@gmail.com
LC0002	Kelum	Perera	kp@gmail.com
LC0003	Lasith	Madhushan	lm@gmail.com
LC0004	Heshan	Bagya	hb@gmail.com
LC0005	Achini	Nimasha	an@gmail.com

8. Modify the column “Course” as “CourseShortName” in the “Course” table.
9. Modify the “Course” table adding a new column named “CourseName” .

CourseID	CourseShortName	CourseName
C001	CAA	Computer Application Assistant
C002	FIT	Foundation in Information Technology
D003	DIT	Diploma in Information Technology

10. Rename the “Student” table as “StudentDetails”.
11. Create a view (“StudentEmails”) to display “StudentID” with “email”.
12. Display the above created view.
13. Delete the above created view.
14. Delete all the details of the “Course” table.
15. Add a new column named “CourseFee(Rs)” to the “Course” table with the following constraints.
 - a. The “CourseFee” should be greater than Rs 10,000
 - b. The “CourseFee” column should not be empty.
16. Enter the following record to the course table.

CourseID	CourseShort Name	CourseName	CourseFee(Rs)
C001	CIT	Certificate in Information Technology	20000

17. Try to add the following record to the course table.

CourseID	CourseShort Name	CourseName	CourseFee(Rs)
C001	CIT	Certificate in Information Technology	8000

(this should give an error , if you have correctly implemented the above constraints)

18. Delete the “LearningCenter” database and Display the current database list.