

Lab # 8
IICT BS DS Fall 2023

Task 01: Adding Tables to Database

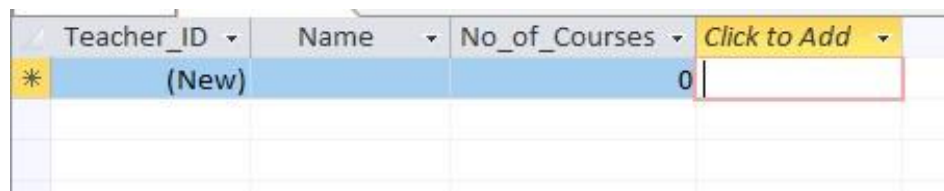
[Estimated 15 minutes / 15 marks]

You are a student and you want to keep track of your grades. So, you decided to make a database as follows:

- Create a blank database and Create a Table for each subject
- Mention your grades of every sessional activity in each table and
- Save the document named “**Lab 08_Task 01_Your Roll No**”

Task 02: Teacher Student Relation

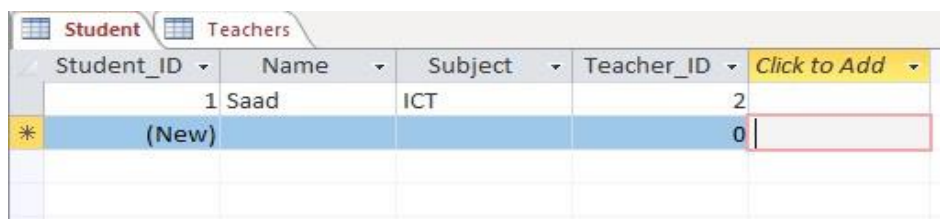
[20 minutes / 20 marks]



The screenshot shows a table named 'Teachers' with the following columns: Teacher_ID, Name, No_of_Courses, and Click to Add. The first row is highlighted in blue and contains the text '(New)' under Teacher_ID, and '0' under No_of_Courses. A yellow asterisk icon is visible in the first row, indicating a new record.

Teacher_ID	Name	No_of_Courses	Click to Add
(New)		0	

Fig. 1



The screenshot shows a table named 'Students' with the following columns: Student_ID, Name, Subject, Teacher_ID, and Click to Add. The first row contains the values '1', 'Saad', 'ICT', and '2'. The second row is highlighted in blue and contains the text '(New)' under Student_ID, and '0' under Teacher_ID. A yellow asterisk icon is visible in the first row, indicating a new record.

Student_ID	Name	Subject	Teacher_ID	Click to Add
1	Saad	ICT	2	
(New)			0	

Fig. 2

- Create two tables, “Teachers” and “Students” respectively as shown above in the figures
- There should be “ten” entries in the “Students” table and three entries in the “Teachers” table
- Make “Student_ID” primary key in the “Students” table
- Make “Teacher_ID” primary key in the “Teachers” table
- Add a relationship between tables on the basis of “Teacher_ID”
- Name access file with “**Lab 08_Task 02_Your Roll No**”

Task 03: Formatting & Creating Forms and Reports

[20 minutes / 30 marks]

- For the Tables in the above task, create Forms & Reports respectively
- The theme for Reports & Forms should be “**Organic**”
- Filter “Name” columns of tables on the basis on names which “contains A”
- Name access file with “**Lab 08_Task 03_Your Roll No**”

Task 04:**[Estimated 15 minutes / 10 marks]**

- Create a Table named **“Students”**
- **“Students”** table should have following fields
 - ID
 - First Name
 - Last Name
 - Email
 - Phone Number
- Add Record of minimum **“10”** Students
- Create a Table named **“Student Attendance”**
- **“Student Attendance”** table should have following fields
 - ID
 - Attendance Date
 - Status (Absent, Present)
 - Student ID
 - Subject
- Add attendance details for each student in **“ICT”** & **“ICT Lab”** Subjects respectively
- **Student ID** in **“Student Attendance”** should be equal to the **ID** of student in **“Student”** table
- Save the document named **“Lab 08_Task 04_Your Roll No”**

Task 05: Course Assignment**[Estimated time 30 minutes / 30 marks]**

- Design a Database with Tables:
 - Teachers
 - Courses
- The fields in the **“Teachers”** table must be:
 - First Name
 - Last Name
 - Age
 - Email
 - Course ID
- The fields in the **“Course”** table must be:
 - ID
 - Course Name
- Create a Relationship between Course & Teacher table □ Create a Multi Table query with fields selected:
 - First Name
 - Last Name
 - Age
 - Course Name
- Apply following query criteria's:
 - Teacher's age should be **“>30 and <60”**
 - Course Name ends with **“T”**
- Create a **“Split Form”** of each table
- Create a **“Navigation Form”** and add Split forms in it
- Save the document named **“Lab 08_Task 05_Your Roll No”**