

# COMSATS UNIVERSITY ISLAMABAD ATTOCK CAMPUS

## **MID LAB REPORT**

## **DATABASE SYSTEM**

Student Name	Syed Kamran Abbas
Registration Number	FA22-BCE-008
Program	COMPUTER ENGINEERING
Semester	BSCE-5

GitHub Profile:- <a href="https://github.com/KAMRAN905">https://github.com/KAMRAN905</a>

Q1. Create and analyze a database for managing student grades in AIS Access. (50 Marks) (CLOS: Analyze techniques for transaction processing, concurtency control, backup and recovery that maintein data integrity on database systems (L2) J

#### **Requirements:**

#### 1. Tables:

a) A Studeats table with fields: StudentiD (Primary Key, AutoNumber).

FirstName (Text), LastName (Text), and Class (Text)

- b) A Courses table with fields: CourselD (Primary Key, AutoNumber), CourseName (Text), and Credits (Number).
- c) A Grades table with fields: GradeID (Primary Key, AutoNumber) SmdeutID (Forcign Key), CowseID (Foreign Key), and Grade (Text).

#### 2. Relationships:

- Link the Stadents and Grades tables by StudentID
- Link the Courses and Grades tables by CourseID

#### 3. Form:

• Create a for called StudentGradesForm to enter and view grades for each student.

#### 4. Query:

• Create a query named GradeReport that lists each student's full name, class, course name, and grade.

#### 5. Report

• Create a report called StudentGradeReport that displays the query results in a printable format Table

#### 1. Tables

#### Student table

		StudentID	First Name	Last Name	Class	Add New Field
	+	1	Kamran	Abbas	BCE-1	
	+	2	Mushaf	Khan	BEE-3	
	+	3	Qasim	Khan	BEE-7	
	+	4	Sami	Khan	BAF-5	
*		(New)				

## Design View

Field Name	Data Type	
StudentID	AutoNumber	
First Name	Text	
Last Name	Text	
Class	Text	

## **Course Table**

	Course ID	Course Name	Credits	Add New Field	
+	1	Database Syste	4		
+	2	Principle of Con	4		
+	3	Operating Syste	3		
+	4	Rws	3		
	(New)				

## Design View

Field Name	Data Type
Course ID	AutoNumber
Course Name	Text
Credits	Number

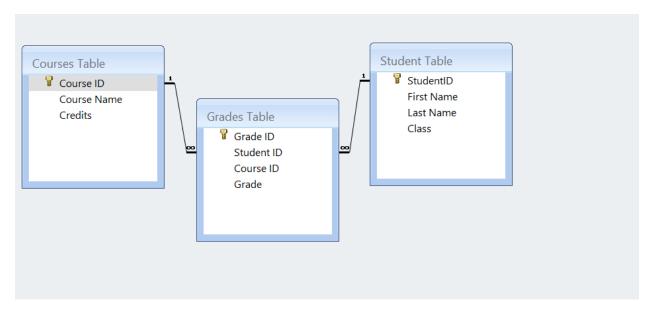
### **Grade Table**

	Grade ID	Student ID	Course ID	Grade	Add New Field	
	1	1	1	Α		
	2	2	2	A		
	3	1	3	В		
	4	3	4	С		
*	(New)					

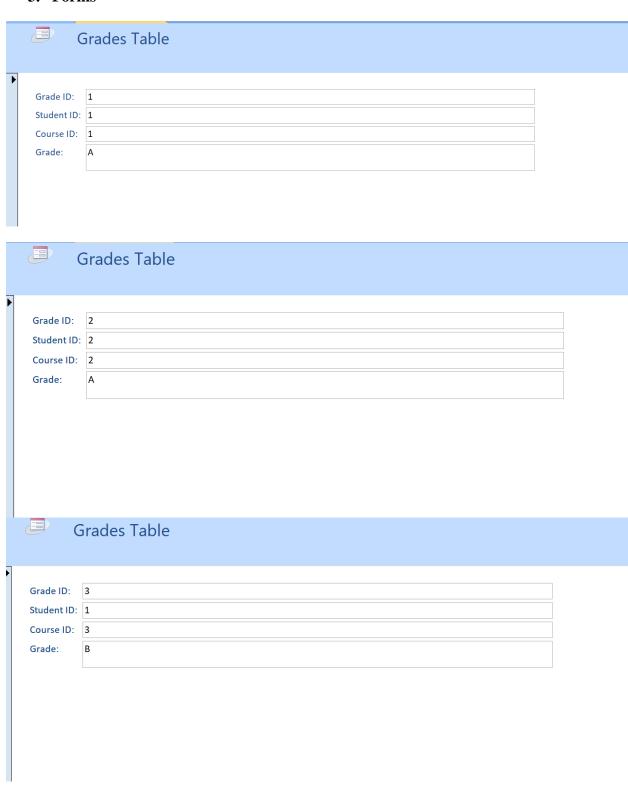
## Design View

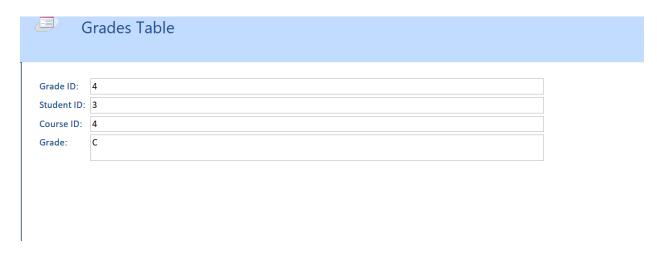
Data Type
AutoNumber
Number
Number
Text

## 2. Relationships

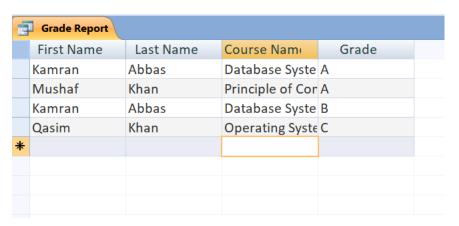


## 3. Forms





## 4. Query



## 5. Report

Stu	udentGrac	leForm
Grade ID	Student ID	Course ID Grade
1	1	1 A
2	2	2 A
3	1	3 B
4	3	4 C
4		

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