Data Dictionary of Program Table:

Entity name	Entity description	Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Program	Represents the programs available in the college.	Program_ID	Unique identifier for each program	Int	10	Yes	No	No	Yes	Auto-Increment
		Program_Name	Program name	Varchar	20	No	No	Yes	No	
		Program_Duration_Years	Shows the duration of each program	Decimal	(2,1)	No	No	No	No	
		Program_Fees	Shows the fees of each program	Decimal	(9,1)	No	No	No	No	
		Total_Credits	Shows the total credits of each program	Int	38	No	No	No	No	

Data Dictionary of Student table :

Entity name	Entity description	Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Student	Represents the Student studying in each Program.	Student_ID	Unique identifier for each student	Int	10	Yes	No	No	Yes	Auto-Increment
		First_Name	Shows the first name of student	Varchar	20	No	No	No	No	
		Last_Name	Shows the last name of student	Varchar	20	No	No	No	No	
		Email	Shows the email of the student	Varchar	20	No	No	Yes	No	
		Phone	Shows the phone number of student	Varchar	15	No	No	Yes	Yes	
		Address	Shows the address of the student	Varchar	50	No	No	Yes	No	
		Enroll_Date	Shows the enroll date of the student	Date	---	No	No	No	No	
		Program_ID	Shows the program the student	Int	38	No	Yes	Yes	No	

			is enrolled to.						

Data Dictionary of Student-Module-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Student_ID	Unique identifier for the student	Int	10	Yes	Yes	No	Yes	
Module_ID	Unique identifier for the module	Int	10	Yes	Yes	No	Yes	

Data Dictionary of Module-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Module_ID	Unique identifier for the module	Int	10	Yes	No	No	Yes	Auto-Increment
Module_Name	Name of the module	Varchar	50	No	No	No	No	
Duration_Months	Duration of the module in months	Decimal	(3,1)	No	No	No	No	
Credits	Credits allocated to the module	Int	10	No	No	No	No	
Teacher_ID	Identifier of the	Int	10	No	Yes	Yes	No	

	teacher assigned to the module							

Data Dictionary of Module-Resource-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Student_ID	Unique identifier for the student	Int	10	Yes	Yes	No	Yes	
Module_ID	Unique identifier for the module	Int	10	Yes	Yes	No	Yes	
Resource_ID	Unique identifier for the resource	Int	10	Yes	No	No	Yes	
Status	Status of the resource usage	Varchar	20	No	No	No	No	

Data Dictionary of Resource-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Resource_ID	Unique identifier for the resource	Int	10	Yes	No	No	Yes	Auto-Increment
Format	Format of the resource	Varchar	20	No	No	No	No	
Resource_Name	Name of the resource	Varchar	50	No	No	No	No	
Duration_Weeks	Duration of the	Decimal	(3,1)	No	No	No	No	

	resource usage in weeks							

Data Dictionary of Teacher-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Teacher_ID	Unique identifier for the teacher	Int	10	Yes	No	No	Yes	Auto-Increment
First_Name	First name of the teacher	Varchar	20	No	No	No	No	
Last_Name	Last name of the teacher	Varchar	20	No	No	No	No	
Specialization	Specialization of the teacher	Varchar	50	No	No	No	No	
Contact_Number	Contact number of the teacher	Varchar	15	No	No	Yes	Yes	
Join_Date	Joining date of the teacher	Date	---	No	No	No	No	

Data Dictionary of Module-Announcement-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Student_ID	Unique identifier for the student	Int	10	Yes	Yes	No	Yes	
Module_ID	Unique identifier for the module	Int	10	Yes	Yes	No	Yes	
Announcement_ID	Unique identifier for the announcement	Int	10	Yes	No	No	Yes	

Data Dictionary of Announcement-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Announcement_ID	Unique identifier for the announcement	Int	10	Yes	No	No	Yes	Auto-Increment
Announcement_Title	Title of the announcement	Varchar	50	No	No	No	No	
Body	Body content of the announcement	Text	---	No	No	No	No	
Date_Posted	Date when the announcement was posted	Date	---	No	No	No	No	
Expiry_Date	Expiry date of the announcement	Date	---	No	No	Yes	No	

Data Dictionary of Module-Assessment-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Module_ID	Unique identifier for the module	Int	10	Yes	Yes	No	Yes	
Student_ID	Unique identifier for the student	Int	10	Yes	Yes	No	Yes	
Assessment_ID	Unique identifier for the assessment	Int	10	Yes	No	No	Yes	

Data Dictionary of Assessment-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Assessment_ID	Unique identifier for the assessment	Int	10	Yes	No	No	Yes	Auto-Increment
Title	Title of the assessment	Varchar	50	No	No	No	No	
Deadline	Deadline for the assessment submission	Date	---	No	No	No	No	
Weightage_Percentage	Weightage percentage of the assessment	Decimal	(5,2)	No	No	No	No	
Full_Marks	Full marks of the assessment	Int	10	No	No	No	No	

Data Dictionary of Assessment-Result-3 table:

Column name	Column description	Data type	Length	PK	FK	Nullable	Unique	Notes
Student_ID	Unique identifier for the student	Int	10	Yes	Yes	No	Yes	
Module_ID	Unique identifier for the module	Int	10	Yes	Yes	No	Yes	
Assessment_ID	Unique identifier for the assessment	Int	10	Yes	Yes	No	Yes	
Result_ID	Unique identifier	Int	10	Yes	No	No	Yes	Auto-Increment

	for the result							
Marks_Obtained	Marks obtained in the assessment	Int	10	No	No	No	No	
Feedback	Feedback for the assessment	Text	---	No	No	Yes	No	
Percentage	Percentage obtained in the assessment	Decimal	(5,2)	No	No	No	No	
Grade	Grade awarded for the assessment	Varchar	5	No	No	No	No	