

# DMW FA 01

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**Batch :** B2

**Branch :** Computer Engineering

## Problem Statement :

Q3. Relationship Modeling & Courses

Table : Student and Courses

- Create a relationship using coursesID
- Build a bar chart showing the number of students per course, with slicers for semester.

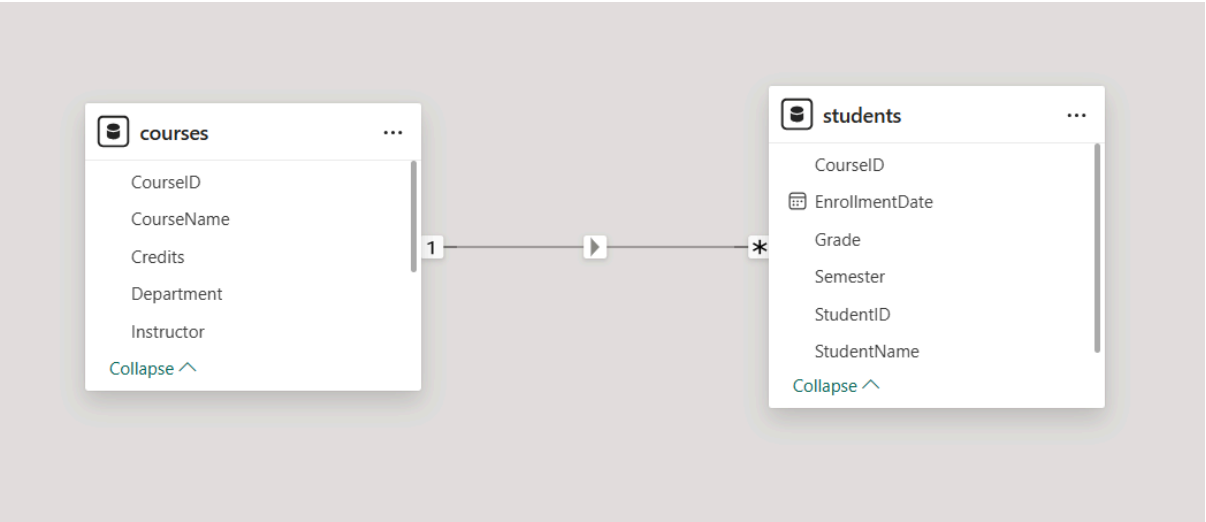
## Dataset table for courses

CourseID	CourseName	Department	Credits	Instructor
CS101	Introduction to Programming	Computer Science	3	Dr. Smith
CS201	Data Structures	Computer Science	4	Prof. Johnson
CS301	Database Systems	Computer Science	3	Dr. Brown
MATH101	Calculus I	Mathematics	4	Prof. Davis
MATH201	Statistics	Mathematics	3	Dr. Wilson
ENG101	English Composition	English	3	Prof. Taylor
PHYS101	General Physics	Physics	4	Dr. Anderson
CHEM101	General Chemistry	Chemistry	4	Prof. Thomas
BIO101	Introduction to Biology	Biology	3	Dr. Garcia
HIST101	World History	History	3	Prof. Martinez

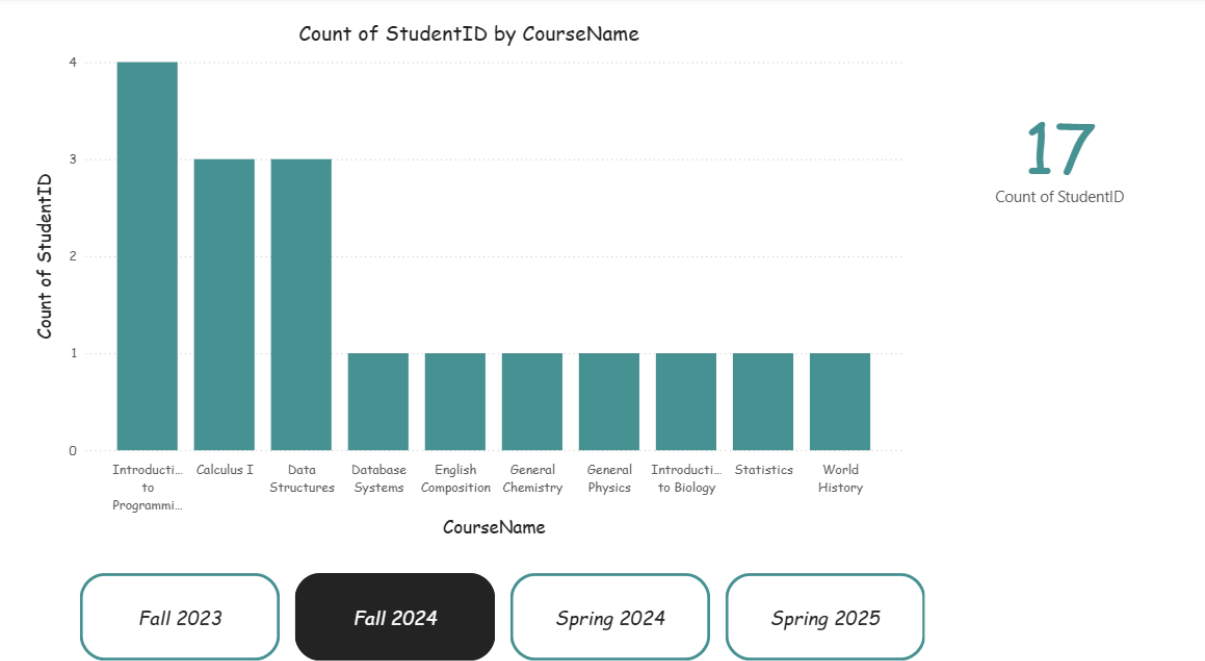
## Dataset table for students

StudentID	StudentName	CourseID	Semester	EnrollmentDate	Grade
S001	Alice Johnson	CS101	Fall 2024	15 August 2024	A
S002	Bob Smith	CS101	Fall 2024	15 August 2024	B+
S003	Carol Davis	CS101	Fall 2024	15 August 2024	A-
S004	David Wilson	CS201	Fall 2024	15 August 2024	B
S005	Eva Brown	CS201	Fall 2024	15 August 2024	A
S006	Frank Miller	CS301	Fall 2024	15 August 2024	B+
S007	Grace Lee	MATH101	Fall 2024	15 August 2024	A
S008	Henry Clark	MATH101	Fall 2024	15 August 2024	B-
S009	Ivy Martinez	MATH201	Fall 2024	15 August 2024	A-
S010	Jack Thompson	ENG101	Fall 2024	15 August 2024	B
S011	Kelly White	CS101	Spring 2024	10 January 2024	A-
S012	Liam Garcia	CS101	Spring 2024	10 January 2024	B+
S013	Mia Rodriguez	CS201	Spring 2024	10 January 2024	A
S014	Noah Anderson	CS301	Spring 2024	10 January 2024	B

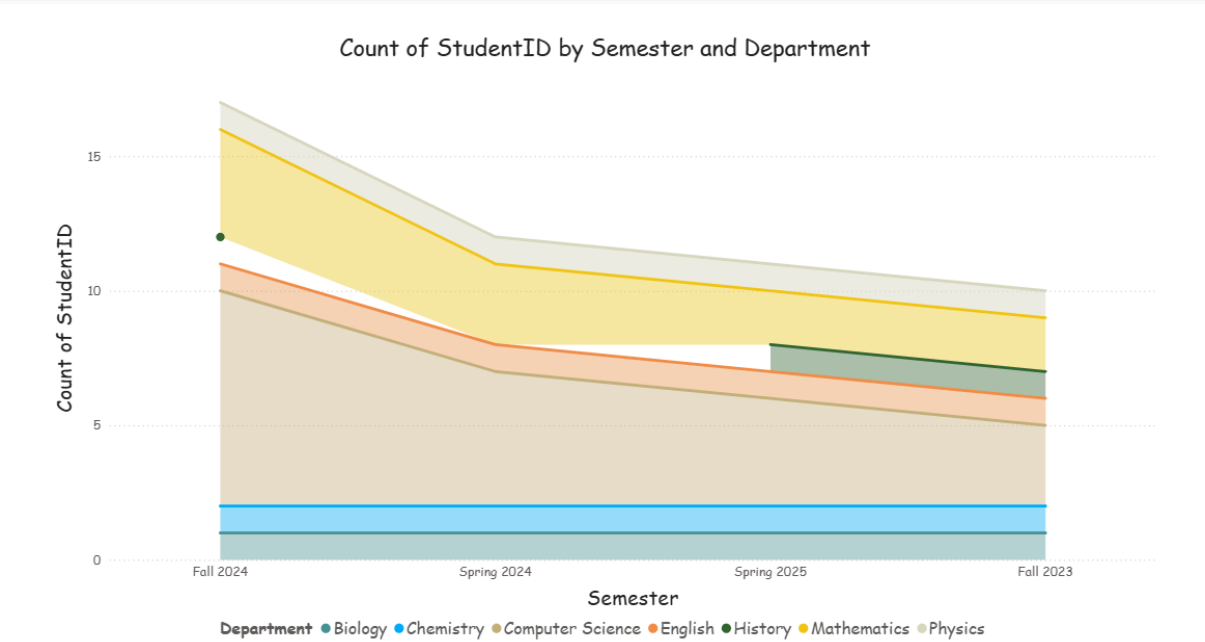
**Work for subquestion 01 (a) :** Create a relationship using coursesID



**Work for subquestion 02 (b) :** Build a bar chart showing the number of students per course, with slicers for semester.



**Extra work :** Count of studentID by semester and department



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