

Power BI Assignment

1. Using the dataset given below create the One-to-Many Relationship

a) Students [StudentID] → Enrollments [StudentID] (1:M)

b) Courses [CourseID] → Enrollments [CourseID] (1:M)

The screenshot shows the Power BI Desktop interface with the 'Edit relationship' dialog box open. The dialog displays the relationship between 'Students' and 'Enrollments' on the 'StudentID' column. The 'Courses' table is also visible in the background.

Students Table:

StudentID	FullName	Gender	Department	EnrollmentYear
S001	Aisha Khan	F	CS	2021
S002	Ravi Mehra	M	IT	2022
S003	Sneha Joshi	F	CS	2023

Enrollments Table:

Column1	Column2	Column3	Column4
EnrollmentID	StudentID	CourseID	Grade
E001	S001	C101	A
E002	S001	C102	B

Relationship Configuration:

- Cardinality: One to many (1:*)
- Cross filter direction: Single
- ☒ Make this relationship active
- ☐ Assume referential integrity
- ☐ Apply security filter in both directions

Courses Table (Background):

CourseID	CourseName	Credits	Department
C101	Introduction to AI	3	CS
C102	Advanced Data Structures	4	CS
C201	Web Development	3	IT

Untitled - Power BI Desktop

File Home Help

Clipboard: Paste, Cut, Copy

Data: Get data, Excel workbook, OneLake data hub, SQL Server, Enter data, Databases

Visualizations: Bar chart, Line chart, Map, Table, Matrix, Card, Gauge, Funnel, Combo, Storyline, AI, A

Sensitivity: Sensitivity, Publish

Share: Share

Edit relationship

Select tables and columns that are related.

Courses

CourseID	CourseName	Department	Credits
C101	Data Structures	CS	4
C102	Operating Systems	CS	4
C201	Database Systems	IT	3

Enrollments

Column1	Column2	Column3	Column4
EnrollmentID	StudentID	CourseID	Grade
E001	S001	C101	A
E002	S001	C102	B

Cardinality: One to many (1:*)

Cross filter direction: Single

☒ Make this relationship active

☐ Assume referential integrity

☐ Apply security filter in both directions

OK Cancel

Data

Search

- Courses
- Enrollments
- Students

Properties

CourseID
CourseName
Credits
Department
Collapse ^

1

*

All tables +

Sports headline
Club World Cup...

Search

ENG IN

19-06-2025

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Share: Share

Courses

- CourseID
- CourseName
- Credits
- Department
- Collapse ^

Students

- Department
- EnrollmentYear
- FullName
- Gender
- StudentID
- Collapse ^

Enrollments

- Column1
- Column2
- Column3
- Column4
- Collapse ^

1

*

1

All tables +

Data

Search

- Courses
- Enrollments
- Students

Properties

113%

Update available (click to download)