



26+ Years  
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RIGHT WAY

**Mohammed Abu-Hadhoud**

MSA, PMOC, PMP®, PRP®, PSE-ITP®, CS, ITIL, MCP®, MCSD



لا تنسى الاشتراك في قناتنا على اليوتيوب ومشاركة القناة مع اصدقائك  
لتعم الفائدة للجميع وانقاذ الاف الناس من التشتت جزاكم الله خيرا

**لا تنسونا من دعائكم وادعو لوالدي بالرحمة**

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## مهم جداً

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20% مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

**يجب عليك مشاهدة فيديو الدرس كاملا**

لاتنسى عمل لايك ومشاركة القناة لتعم الفائدة للجميع  
لا تنسونا من دعائكم

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# Database Level 1 SQL (Concepts & Practice)

## Steps To Build ERD



**Mohammed Abu-Hadhoud**

MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD



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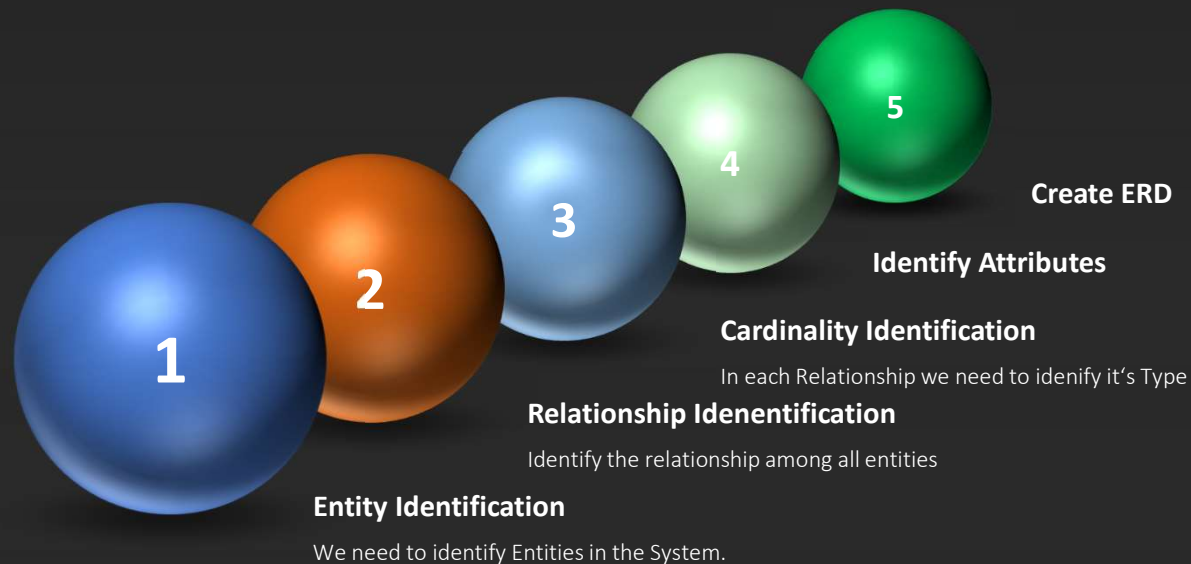


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# Steps to Create ERD

Follow these steps to creat ERD.



# Create ERD for University

## Requirements:

- In a university, a Student enrolls in Courses. A student can enroll in more than one course, Each course can have more than one student.
- Each student has only one mentor(prof), Professor can mentor more than one student.
- Each Professor can teach only one course.
- Each Course can have only one professor.
- Course can have un-assigned professor.
- Professor can teach no courses.

# Step 1:



## Entity Identification

### Requirements:

- In a university, a **Student** enrolls in **Courses**. A student can enroll in more than one course, Each course can have more than one student.
- Each student has only one mentor(prof), **Professor** can mentor more than one student.
- Each Professor can teach only one course.
- Each Course can have only one professor.
- Course can have un-assigned professor.
- Professor can teach no courses.

Student

Course

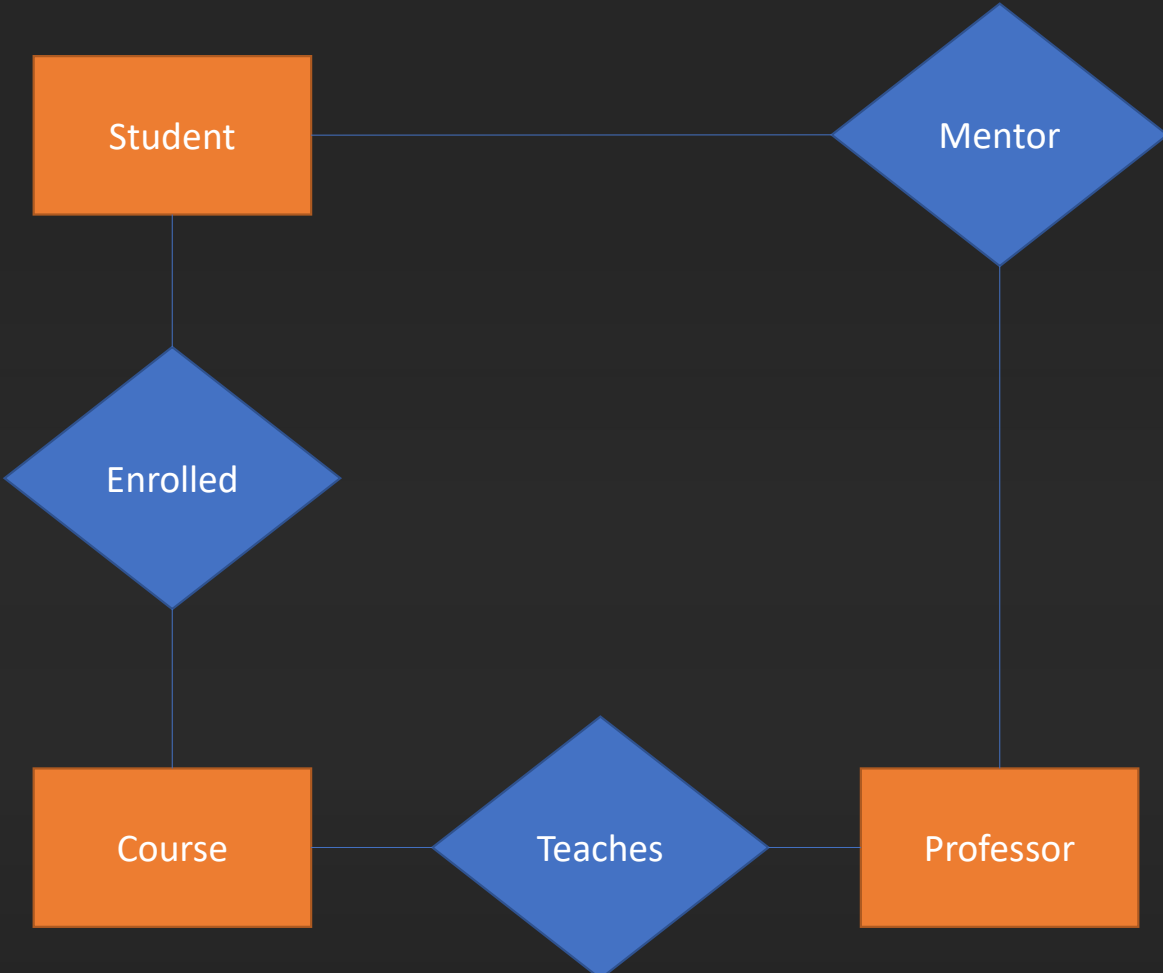
Professor

# Step 2:



## Relationship Identification

- In a university, a **Student** enrolls in **Courses**. A student can enroll in more than one course, Each course can have more than one student.
- Each student has only one mentor(prof), **Professor** can mentor more than one student.
- Each Professor can teach only one course.
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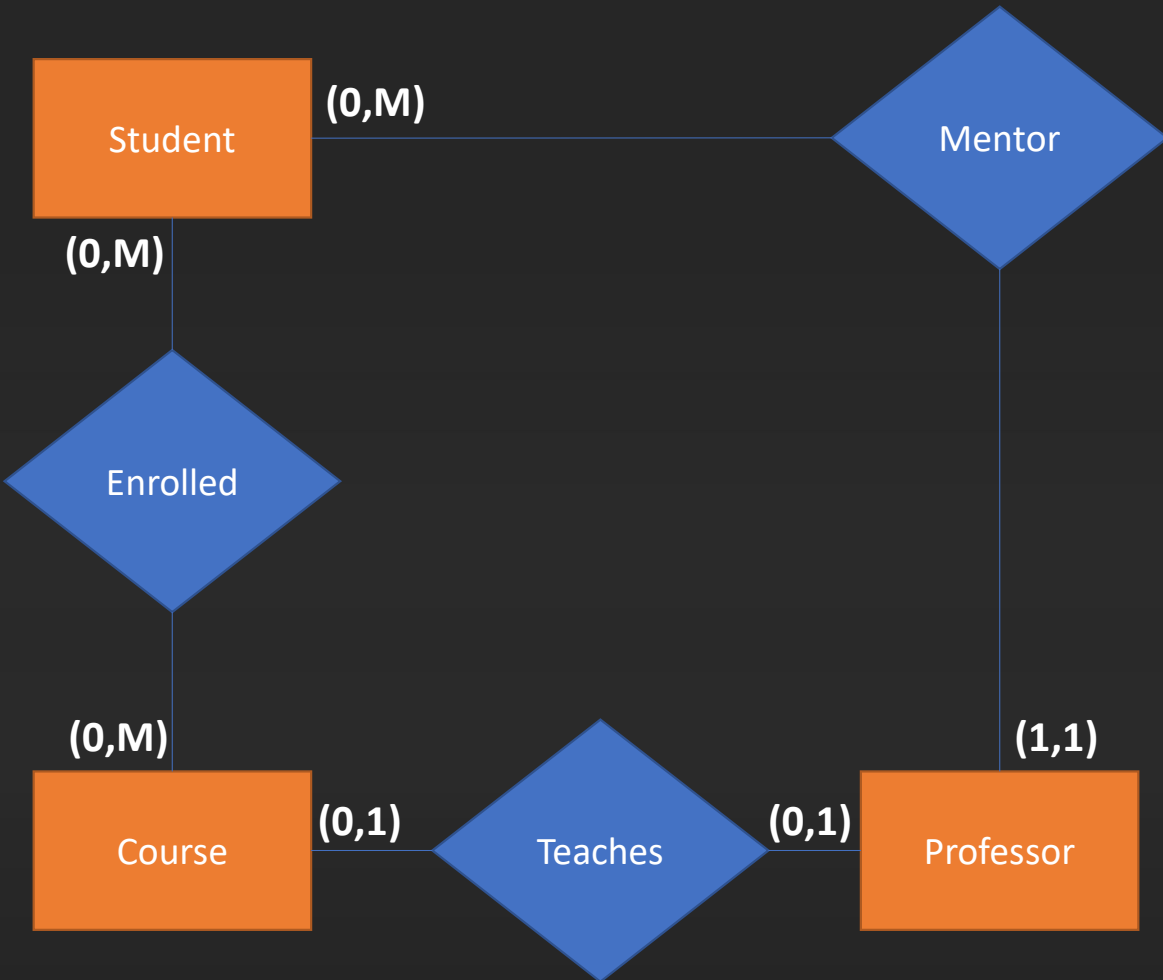


# Step 3:



## Cardinality Identification

- In a university, a **Student** enrolls in **Courses**. A student can enroll in more than one course, Each course can have more than one student.
- Each student has only one mentor(prof), **Professor** can mentor more than one student.
- Each Professor can teach only one course.
- Each Course can have only one professor.
- Course can have un-assigned professor.
- Professor can teach no courses.

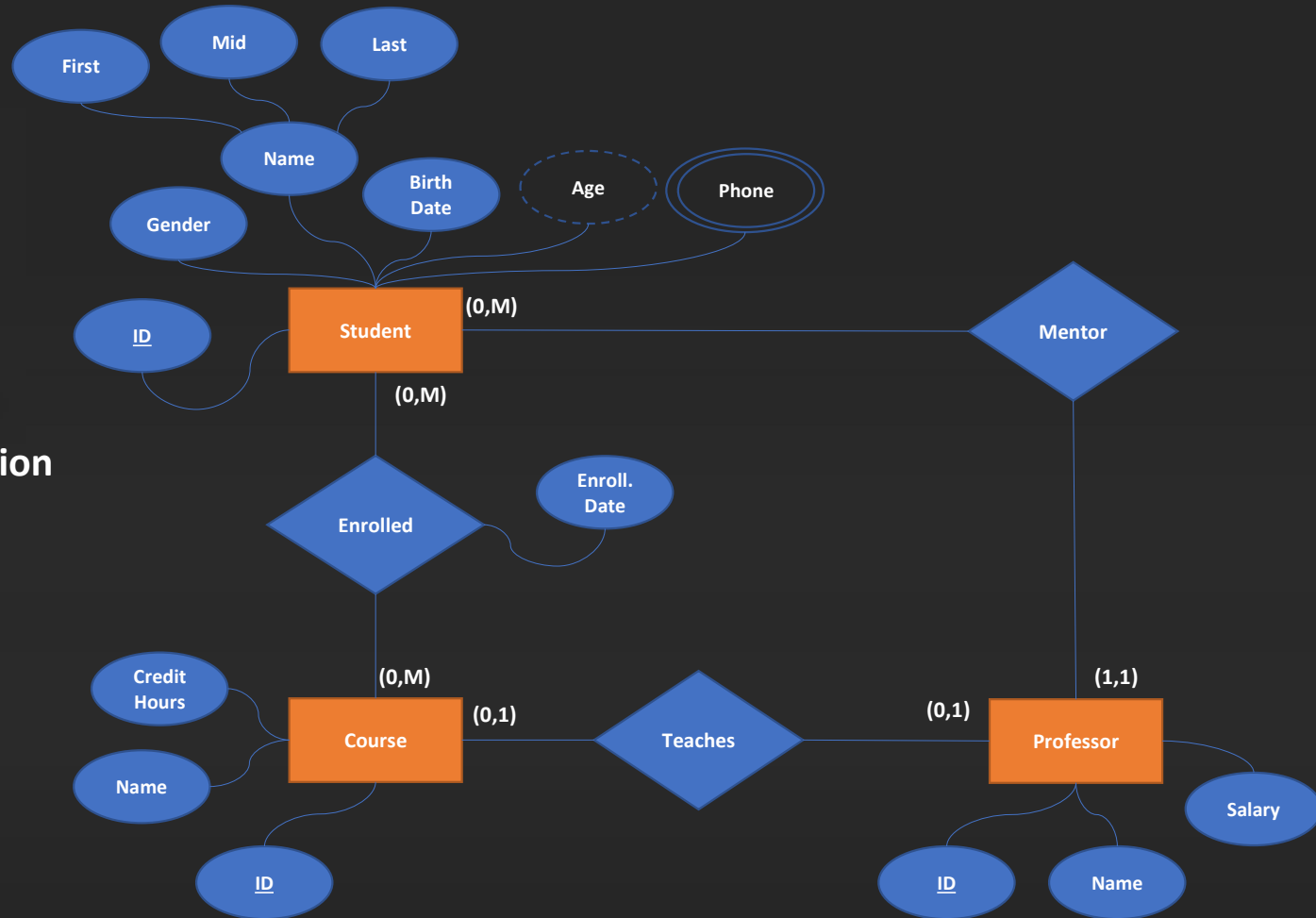




# Step 4:

4

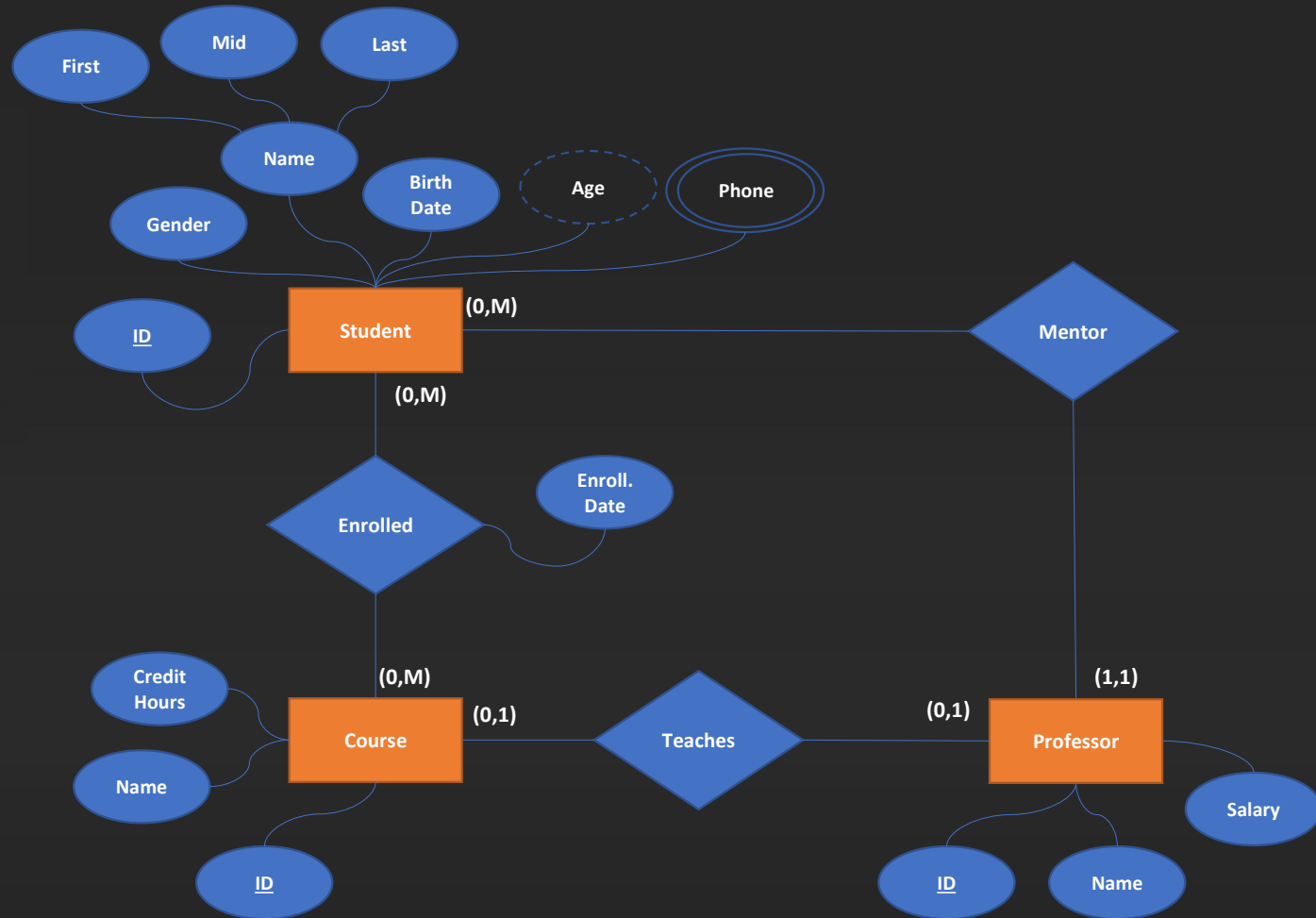
## Attributes Identification



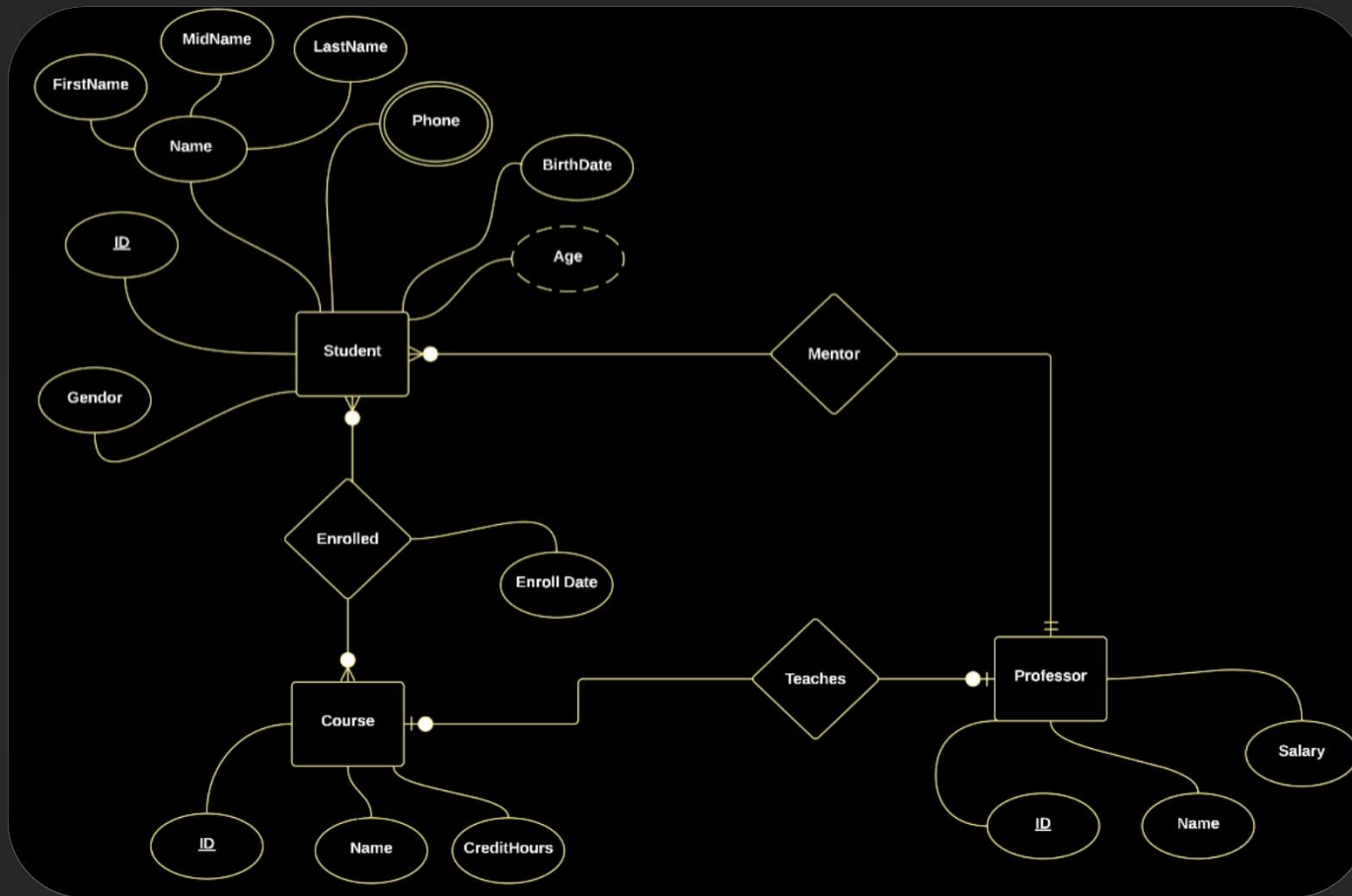
# Step 5:

5

Creat ERD



## Final ERD Using Crow's foot Notation:





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Thank You

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