

Project work

01

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Database managment systems

[illegible]

data stored and accessed electronically

Database management system (DBMS) is the software that manages the database for applications, and the database itself to capture and store data

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Our project topic

UNIVERSITY

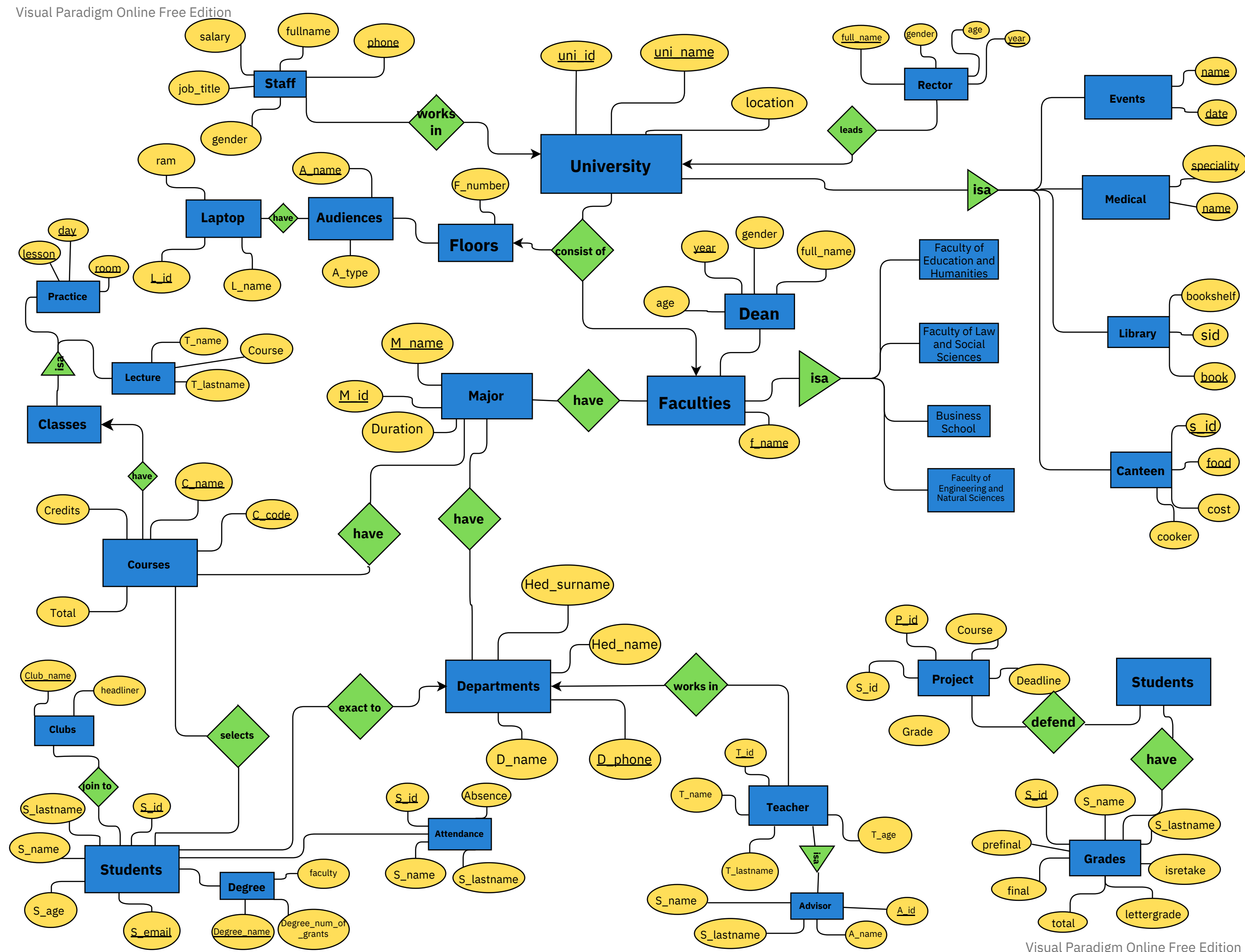


TEACHERS,STAFFS,STUDENTS

04 What is an ER diagram?

An Entity Relationship Diagram (ERD) is a visual representation of different entities within a system and how they relate to each other.

05



06

What is Functional Dependency?

Functional Dependency (FD) is a constraint that determines the relation of one attribute to another attribute in a Database Management System (DBMS).

superkey is a set of attributes that uniquely identifies each tuple relation.

07

EXAMPLES

Student:{sid}-superkey
{sid}->{sname,slastname,age}

Attendance:{sid}-superkey
{sid}->{sname,slastname,absence}

Audiences:{name}-superkey
{name}->{type}

library:{book_id}-superkey
{book_id}->{book,bookshelf}

Practice:{lesson,day}-superkey
{lesson,day}->{room}

Rectors:{fullname}-superkey
{fullname}->{gender,age,year}

Grades:{sid}-superkey
{sid}->{sname,slastname,prefinal,final,total,lettergrade,isretake}

Advisor:{id}-superkey
{id}->{a_name,sname,slastname}

Department: {dname}-superkey
{dname}->{phone,hedname,hedsurname}

Medical:{id}-superkey
{id}->{name,speciality}

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What is Database Normalization?

Normalization is a database design technique that reduces data redundancy and eliminates undesirable characteristics like Insertion, Update and Deletion Anomalies.

STUDENT			
SID	SNAME	SLASTNAME	AGE
78499	Maximus	Doyle	16
69718	Christian	Stevens	21
3016	Lillie	Winters	22
8068	Jayden	Holland	20
91943	Mayra	Leon	19
41610	Rylan	Cain	20
23856	Alberto	Harrell	22
84621	Kailey	Hinton	21
7318	Bryson	Wu	16