

Hello Everyone!! Be happy

ERD → Relations (i.e. a Table)

Entity-Set → Relation

Relationship

Weak-Entity Set + Identifying Relationship

Takes the name of the weak-entity-set

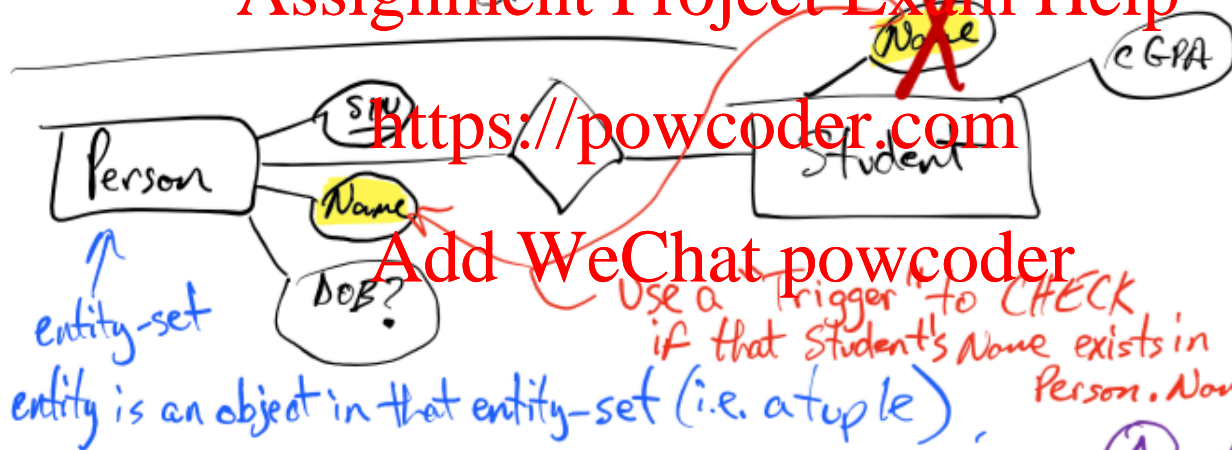
irrelevant attribute

"Numeric" is a data type

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A:

KeyA	att1	att2
1	bob	50
2	jane	100
3	george	200

3 rows

OWN:

KeyA	KeyB	other
1	x	Feb1
1	y	Jan20
3	z	Jan15

Can't happen

B:

KeyB	attX	attY
x	hi	3.14
y	lo	2.71
z	hey	5.5

3 rows

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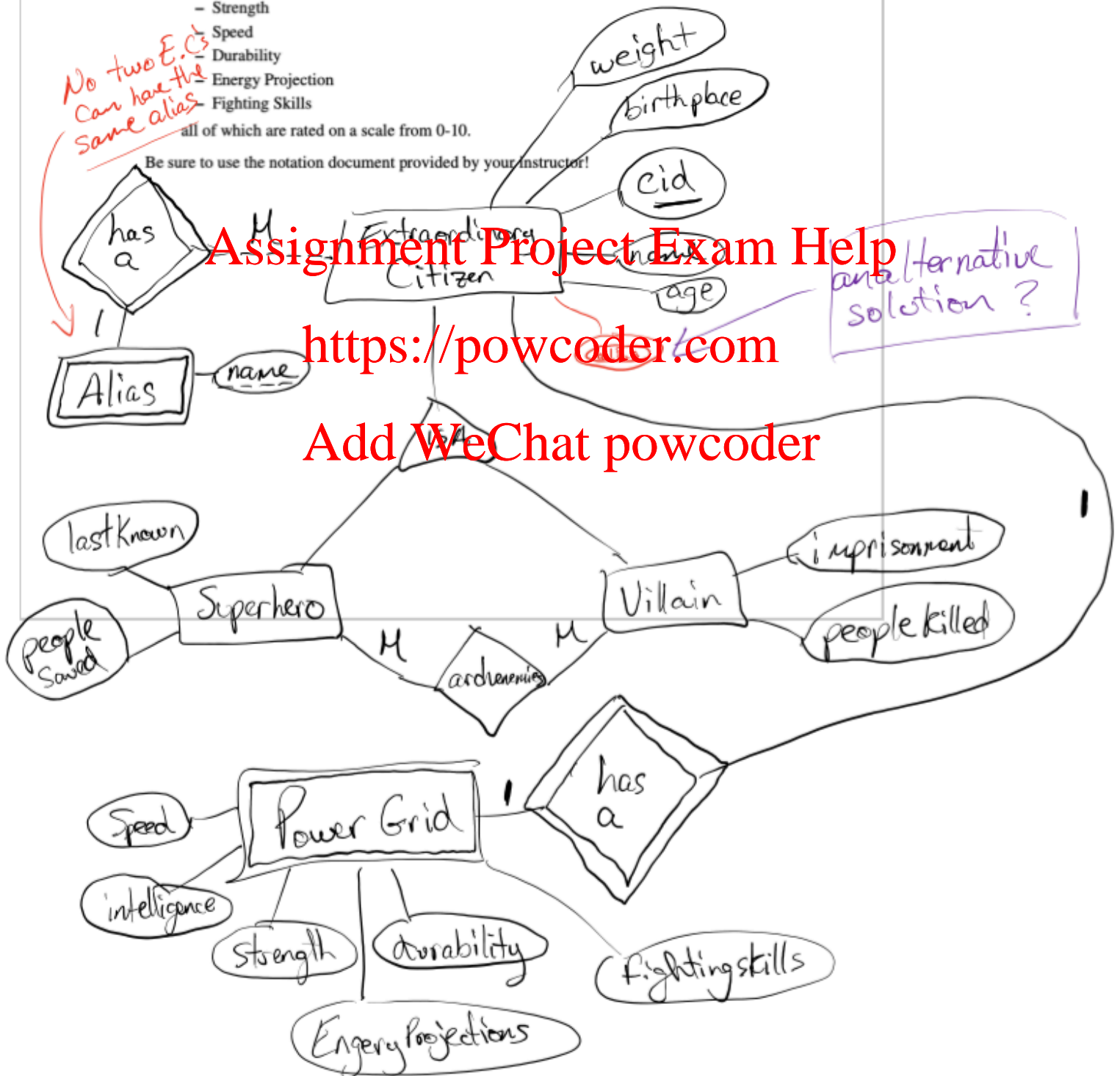
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## ERD Construction

You have been hired by **S.H.I.E.L.D.** as a Database Architect. Your task is to create a database which helps them in tracking known Superheroes and Villains. Create an ER Diagram (ERD) which satisfies the following requirements:

- Extraordinary Citizens (Superheroes and Villains) have a unique identifier (cid), a name, and an age, a place of birth and weight.
- Superheroes are Extraordinary Citizens and we know how many people they saved as well as their last known city.
- Villains are Extraordinary Citizens and we know how many people they've killed as well as their imprisonment status.
- Each Superhero and Villain can have multiple aliases.
- Each Superhero and Villain can also have multiple archenemies.
- Each Superhero and Villain has a power grid, which includes their:
  - Intelligence
  - Strength
  - Speed
  - Durability
  - Energy Projection
  - Fighting Skillsall of which are rated on a scale from 0-10.

Be sure to use the notation document provided by your instructor!



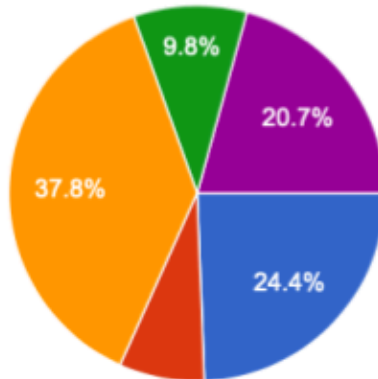
## Week 4 - Synchronous

Thursday, January 28, 2021

5:05 PM

I can truthfully say the following about the readings?

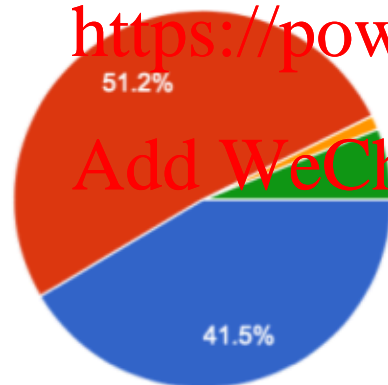
82 responses



- I don't do them because I'm lazy
- I don't do them because they are boring
- I do some of them
- I've read them all
- We have readings?

I can say the following about the course so far?

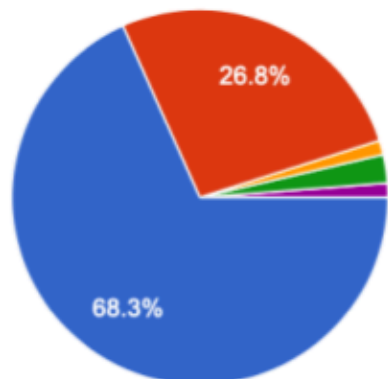
82 responses



- It's exciting.
- It's just ok.
- It's boring.
- Why are you making me complete this survey?

I can say the following about PCRS videos so far?

82 responses



- The asynchronous videos are great!
- The asynchronous videos are just ok.
- The asynchronous videos suck!
- I have not watched the videos.
- Videos? What videos?

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How do you want to use the first hour of lecture?



No Response

15

1

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Review Only

9

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2

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Half Review, Half Q&A

40

3

Q&A Only

10



Hide Responses

[Clear](#)

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## Task 2

From the relations you have identified in Task 1, create the DDL file for the relations and populate it with some data!

Extraordinary Citizen(cid, name, weight, birthplace, age)

```
CREATE TABLE IF NOT EXISTS ExtraordinaryCitizen(  
  cid INT PRIMARY KEY,  
  Name VARCHAR(100) NOT NULL,  
  Weight SMALLINT NOT NULL,  
  BirthPlace Varchar(100),  
  Age INT NOT NULL  
);
```

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Inter

- Relational Constraints

Between relations.  
e.g. Foreign Key

Intra

- Relational Constraints

within a relation.  
e.g. CHECK

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$0.0 \leq \text{CGPA} \leq 4.0$   
↑  
attribute

Useful PostgreSQL Commands:

\l — available databases

\c — connect to a different database

\dt — list all tables

\d tableName — described table

\dn — lists all schemas

\df — all available functions

\dv — all available views

\du — all available users and their roles

\s — command history

\i filename — executes psql commands from a file

\? — help

\q — quit psql