Spring semester 2021

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Quistion 1

A.)

arre

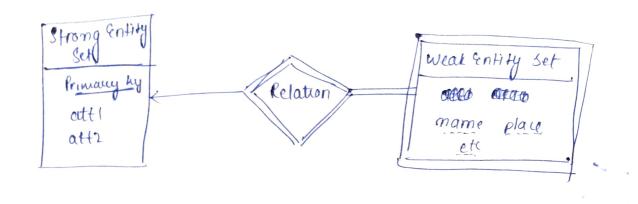
weak entity set: when the attributes associated with an entity set and not sufficient to uniquely identify an entity, then this is called a makentity.

A weak entity set doesn't have any primary key for obscuiminating the entities in a set, the weak entity set is defendant on a particular strong entity set

The weak entity set gets its primary key by combining the discussion along attributes of weak entity and the frimary key of 'identifying' strong entity set.

Repusertion in ER Diagram.

- The weak entity out is shown by a dauble rectangle
- a dashed line.
- @ Relationship of a weak entity set with a strong entity set is shown with a double diamond



B.)
Aunstrang axious have to be seeind and complete

Axioms

Reflexivity \Rightarrow if $\beta \subseteq \alpha$ then $\alpha \mapsto \beta$ Augmentation \Rightarrow if $\alpha \to \beta$ holds and β is another attribute set

then $\alpha \vee \beta = \beta$ also holds

transitivity \ni If $x \to \beta$ holds and $\beta \to \gamma$ also holds then the implication that $x \to \gamma$ also holds term

Sound: Crum a set of functional dependencies of a Relational schema R, any dependency that an can infur from F using the principle fulls of anistrong axioms holds in energy enlateon state of R shot satisfies the dependencies in F

complète: using frimany unlos superatedly to infer dependences can be inferred.

Li Henre complète out of Dependencies possible ares

Clus 2 ans Entities: 1) Departments Entuprise: 2) Projects 3) Employees AR Construction House

Entity 1

Employee (Full)

Department (Pautra) belongs to?

Department (pautra) Project (Full)

Employee (Full)

Project (Pautral) assigned? Type mentioned buachets

Participa"

