

DataBaseSystem report

Lecture 7



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Quiz

- What is ER Diagram?

ER diagram expresses the Entity-Relationship Model. ER diagram is used in the design process of the database from the requirements of the real world. In other words, by modeling a concept, entities, attributes and relationships are expressed. ER diagrams are translatable into relational tables which allows you to build databases quickly. ER diagrams provide a preview of how all your tables should connect, what fields are going to be on each table.

- What are entity types, attribute and relationship?

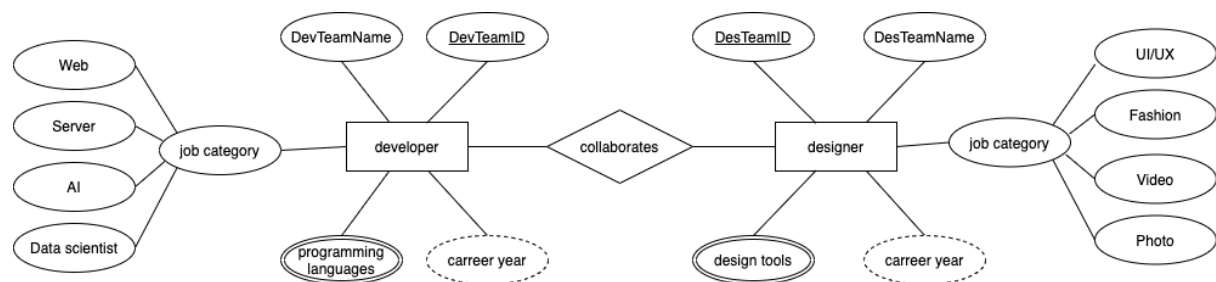
Entity types: The common property of entity is the entity types such as game. An entity is an object in the real world that exists independently and is uniquely identified, such as a Starcraft, FIFA, League Of Legend.

Attribute: An attribute is property possessed by an entity. one entity is described as a set of associated attributes. For example, an developer entity has attributes such as DevTeamID, DevTeamName, job category, programming languages and career year.

Relationship: relationship is one of the biggest purposes of ER Diagram and express the association between entities. relationship is association or connection between entities that can be thought of as a mapping between two or more entity types.

Task

- Create your own ER Diagram that contains two entity types and connect them with relationship
- For your entity types, include the following attributes
 - Primary key attribute, simple attribute, composite attribute, multi-valued attribute, derived attribute



Entity types: **developer, designer**

Relationship: **collaborates**

Developer's attributes

Primary key attribute: **DevTeamID**

Simple attribute: **DevTeamName**

Composite attribute: **job category**

Multi-valued attribute: **programming languages**

Derived attribute: **career year**

Designer's attributes

Primary key attribute: **DesTeamID**

Simple attribute: **DesTeamName**

Composite attribute: **job category**

Multi-valued attribute: **design tools**

Derived attribute: **career year**