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IST 659 Data Admin Concepts & Db Mgmt

Date: 7/22/18

Lab Assignment: Lab 2, Conceptual Modeling

Description / Learning Objective

Examine narrative descriptions of organizational data needs and parse them for business rules and facts which we will model.

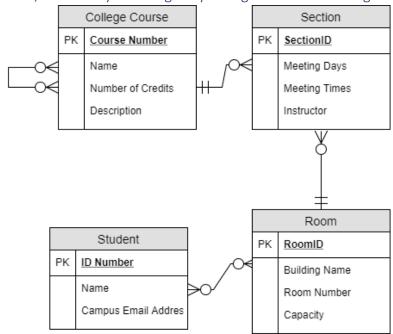
- Demonstrate understanding of the conceptual model
- Demonstrate ability to parse technical requirements from non-technical narratives
- Identify the appropriate cardinality and degree of relationships
- Identify entities from a given data problem
- Identify attributes and their properties for entities in a given data problem

To-do:

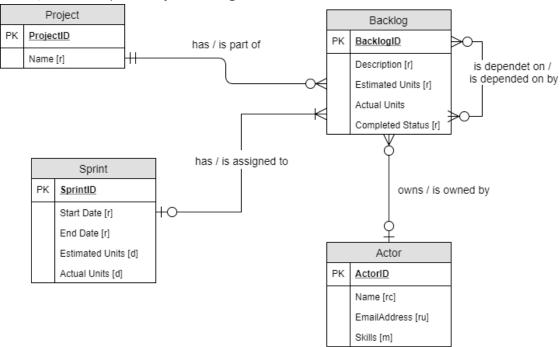
- Part 1 Draw ERD diagrams for the Conceptual Modeling Case Studies
- Part 2 Draw an ERD diagram for the VidCast Conceptual Model

Responses:

Part 1, Case Study 1 – Obligatory College Classes Modeling



Part 1, Case Study 2 – Project Management



Part 1, Case Study 3 – Book Publishing Database

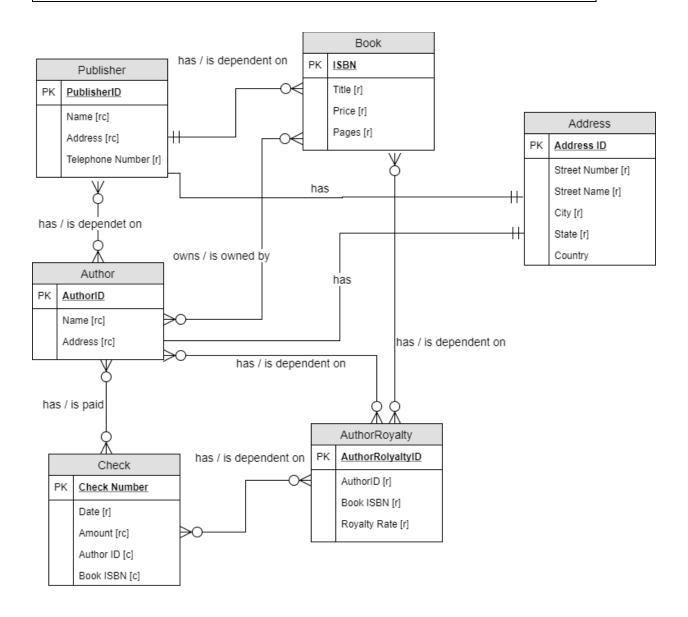
Entity	Attribute
Publisher	Name [ru]
	Address [r]
	Telephone Number [r]
Book	ISBN [ru]
	Title [r]
	Price [r]
	Pages [r]
Author	Author ID [ru]
	Name [r]
	Address [r]
AuthorRoyalty	AuthorRoyalty ID [ru]
	Author Name [r]
	Book ISBN [r]
	Royalty Rate [r]
Check	Check Number [ru]
	Date [r]
	Amount [r]
	Author ID [r]
	Book ISBN [r]
Address	Address ID [ru]
	Street Number [r]
	Street Name [r]
	City [r]
	State [r]

Zipcode [r]

Relationships

Each Publisher <u>has 1 or more</u> Books, Each Book <u>is part of 1 and only 1</u> Publisher, Each Publisher <u>has 1 and only 1</u> Address

Each Author <u>has 1 or more</u> Book, Each Author <u>has 1 or more</u> Publisher, Each Author <u>has 1</u> and only 1 Address, Each Author <u>has 1 or more</u> AuthorRoyalty, Each Author <u>has 1 or more</u> Check



Part 2, Part 1 – VidCast Conceptual Model

Entity	Attribute
User	UserID [ru]
	User Name [ru]
	Email Address [ru]
	Description
	URL
	Followers
UserTag	UserTagID
	Tag
	Description
Vidcast	VidCastID [ru]
	Title [r]
	StartDateTime
	Duration
	RecordCast
	RecordingURL
	ScheduleStatus [r]
VidcastRecording	VidcastRecording [ru]
	RecordingURL [r]
ScheduleStatus_ref	ScheduleStatusID [ru]
	Status [r]
Relationshins	

Relationships

Each Vidcast has 1 and only 1 User, Each User has zero to many Vidcast

Each Vidcast has zero to many UserTag, Each UserTag has zero to many Vidcast

Each User has <u>zero to many</u> User (Followers), Each User has <u>zero to many</u> UserTag, Each UserTag can have <u>zero to many</u> User

Each Vidcast has <u>zero to 1</u> VidcastRecording, Each VidcastRecording has <u>zero to 1</u> Vidcast Each Vidcast has <u>1 and only 1</u> ScheduleStatus_ref, Each ScheduleStatus_ref has <u>1 to many</u> Vidcast

