



Video Game Database



CS 503

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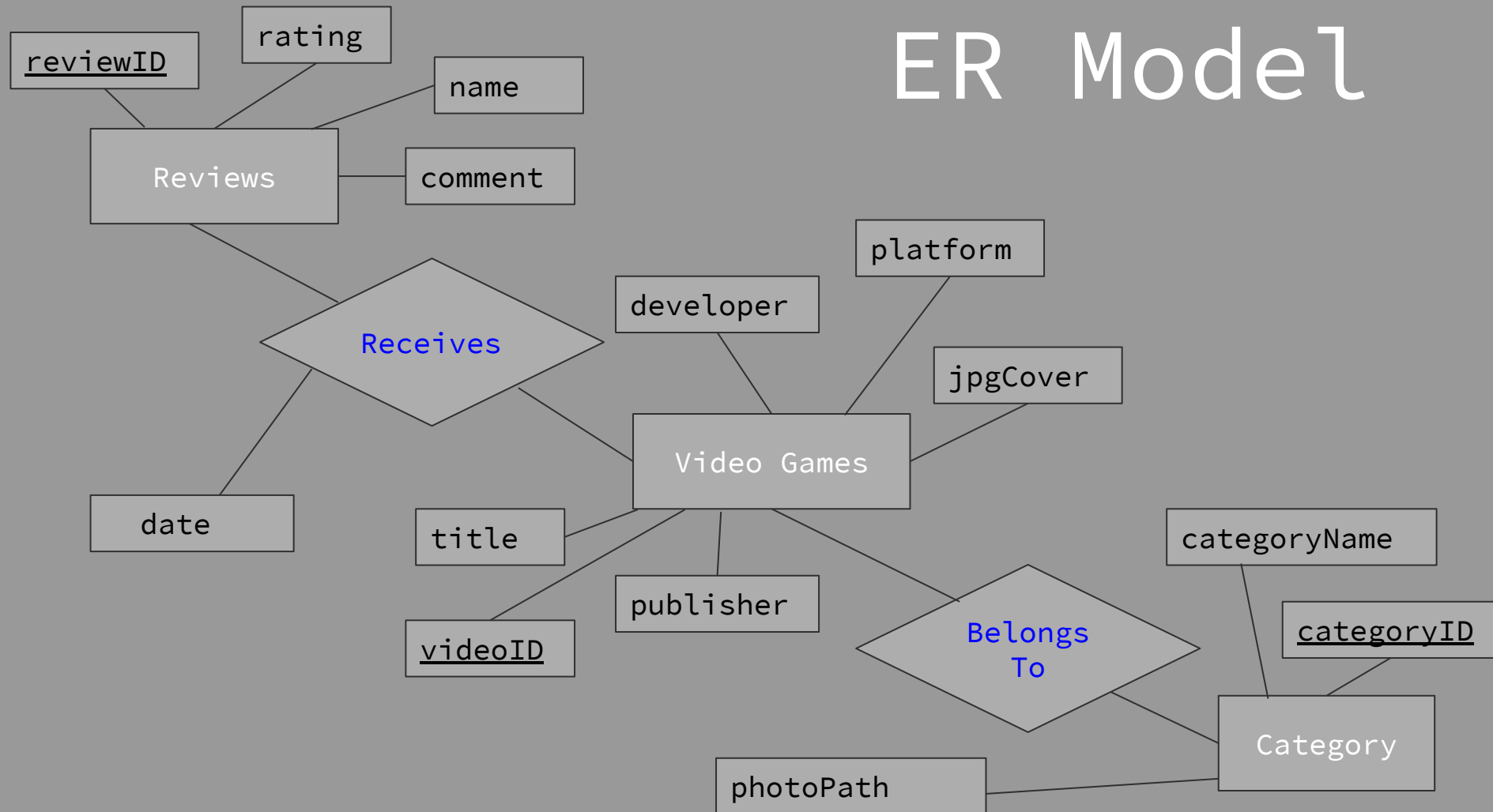
Domain

Video Game Review Database

Each game has their own set of reviews and category



ER Model



Objectives



View a list of games or search games by category



Create a review for a game

- Insert user name, review, and rating
- Do this via text form field



Read the reviews



Admins can **update** info for a video game

- Change relevant information for a game such as the publisher or developer



Admins can **delete** reviews

- Unliked/Inappropriate ones

Normalization of the Database



1NF

- All tables have keys, no multivalued attributes, and no columns with similar information.
- Our table all have keys, there are no multivalued attributes since each attribute in each table holds one entity, and no columns hold redundant/repeating information.



2NF

- Every non prime attribute should be fully functionally dependent on the primary key.
- In all our tables, no partial dependency exists. The VID relays all information of the game for example. The revID also displays everything about the reviews, as does the CategoryID i.e. cid. Also, in the relationship tables with composite keys, both are needed to get the data, thus no partial dependency is present.

Normalization Continued...



3NF

- No non-prime attribute is transitively dependent on the prime key attribute.
- There is no transitive dependency present, thus *nothing but the key* will give you the data in our tables. E.g. from the videogame table, the sole prime attribute is vid, and no non prime attribute can get you another attribute i.e vid -> title -> publisher.







BCNF

- Similar to 3NF, but if any non-trivial dependency exists e.g. $X \rightarrow A$ then X MUST BE a super key.
- This holds true in our table as well, specifically in the relationship tables with composite keys. The keys for example receives both are required to get the review date for that *specific game*.

Assumptions

- 🍷 Assume that users will input a rating less than 5 but greater than one.
 - We have the HTML selector, but they could still possibly mess with it.
- 🍷 We expect users to not try and hack our website by deleting entries (a big one).

Limitations

-  No login page to have users.
 - We only allow users to leave a tag.
-  Reviews are limited currently to a few sentences in the form field. We could add additional functionality by allowing larger fields.
-  No way to identify critic reviews ala rotten tomatoes user vs critic reviews.
-  Don't have a easy navigation bar to go to specific pages

Demo

<http://44.229.19.247/>

Video Game Review DB



[View our list of games to review!](#)

Write a review by clicking the link above!

[Or search by category of video game!](#)

Workflow

- 🍷 WAMP Server Stack hosted on AWS
 - 🍷 HTML for our homepage
 - 🍷 PHP for all other pages
 - 🍷 MySQL for our backend database
- 🍷 (most) Images came from steamgriddb.com
- 🍷 Data is passed between pages using PHP tags in the URL for dynamic web pages with items pulled from our database using PHP