Name: Mark:

Database Assignment

Purpose and End User of my database

Game Review and People who want to play the games

Describe at least 3 implications that are relevant to your database and its use by the end user and why they are important

I need my database to contain games that the users want to see. I also need to create ratings and personal reviews of those games so that the users will be able to gauge if the game that they're buying is worth their money and I need to show the basic information so the users will know a little bit before they buy the games.

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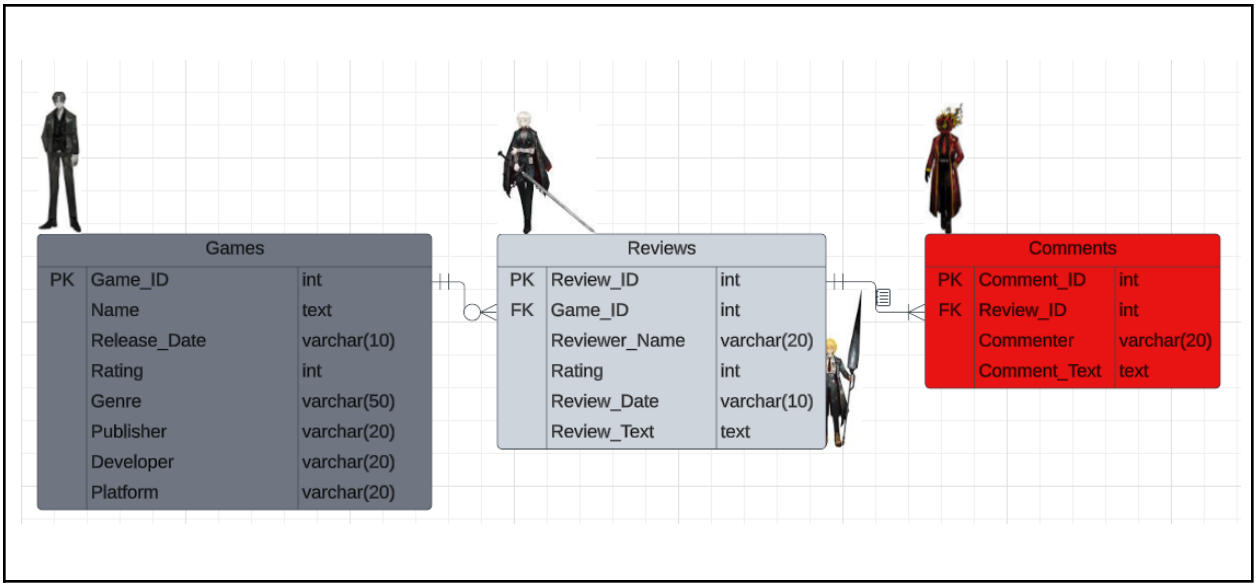
Database Design- Your Entity Relationship Diagram.



Database Testing Table: SQL Statements

Purpose	**SQL Statement**	**Result Success?**
I want to see which games are rated above 90 but also want to know the order of games released.	SELECT * FROM games WHERE rating >90 ORDER BY release_date;	yes!
I want to know which critics said the most amount of words in their reviews	SELECT reviewer_name FROM critic_reviews WHERE text >100;	yes!
I want to know how much of the word “best” is used in the text of user reviews	SELECT COUNT(review_text) FROM user_reviews where review_text like "%best%"	yes!
I want to know which game has the most amount of reviews	select count(game_id) from critic_reviews where game_id=1;	yes!
I want to see which critic reviews are rated above 90 but also want to know the date of when these	SELECT * FROM critic_reviews WHERE rating >90 ORDER BY review_date;	yes!

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reviews are made.		
I want to see which user reviews are rated above 90 but also want to know the date of when these reviews are made.	SELECT * FROM user_reviews WHERE rating >90 ORDER BY review_date;	yes!
I want to know which games are played on which console.	select name, platform from games order by platform	yes!
I want to know which publisher published the highest rated games	select name, rating from games order by rating	yes!
I want to see the order of games released and what platform they were played on.	SELECT name, release_date, platform FROM games ORDER BY Release_date and platform	yes!
I want to see which critic reviews are biased.	SELECT reviewer_name, CASE WHEN rating =100 THEN "biased" ELSE "normal" END as bias_check FROM critic_reviews ORDER BY bias_check	yes!
I want to see which user reviews are biased.	SELECT reviewer_name, CASE WHEN rating =100 THEN "biased" ELSE "normal" END as bias_check FROM user_reviews ORDER BY bias_check	yes!
I want to see specific reviews based on a specific word.	SELECT reviewer_name,review_text from user_reviews where review_text like "%shantae%"	yes!

Relevant Implications- Explain how your database addresses the relevant implications that you identified at the start.

My relevant implications for my database is Functionality,Social and Ethical. Functionality means if the database does work. It ain't a good database if it isn't even working in the first place. Second implication is Sociality, which means that people want to see if the games that they're reviewing are good for them. Finally, the third implication is Ethical, which states that the data that I'm gathering is from actual game journalists who are willing to spend time playing the game to the fullest rather than

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some lackey who goes “wow!!!” at cinematic cutscenes or whatever like seriously, whoever says that TLOU2 is good are braindead.
Some good examples for functionality in video game review databases include; Game Listings, User Reviews, Average Rating, etc. These things allow the users to sort what games they would like to view, see how people judge the games and gauge if they should buy it.
Examples for Social interactions in video game review databases include having user interaction between the players and developers, making curated lists, etc. These features allow users to talk about their opinions with each other, make specific lists for people who need them and bring a sense of community.
You wanna know what’s a bad example of Ethical collection of data for these kinds of databases? Getting that data from people who don’t know how to play the game at all. A really good example of why the collection of data for these databases is scuffed is because of people like Dean Takahashi. He is a game journalist who lacked competency when it comes to actually playing the game. We should get games journalists who know how to play the game as well as knowing how to criticize it fairly.

Showcase:

Give evidence of your database and the Python code that interfaces with it. Use screenshots or a short video. Explain how it improved, how it functions, how it was tested etc.

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```python
import sqlite3

#so uhhh this is definitely my first assignment when it comes to programming in general.
#first thing i need to do is get the data from my database.
database = "limbusdatabase.db"
#now that i can get the data now, this string shows you the data is a simple way.
'''functions'''
def gametable(connection, tabletoread):
    cursor = connection.cursor()
    sqlgame = f"select * from {tabletoread}"
    cursor.execute(sqlgame)
    results = cursor.fetchall()
    if tabletoread.casefold() == "games".casefold():
        print(f"{'id':<20}{'name':<50}{'release date':<15}{'rating':<10}{'genre':<40}{'platform':<20}")

        for item in results:
            print(f"{item[0]:<20}{item[1]:<50}{item[2]:<15}{item[3]:<10}{item[4]:<40}{item[5]:<20}")
    if tabletoread.casefold() == "critic_reviews".casefold():
        print(f"{'id':<20}{'reviewer name':<50}{'review date':<15}{'rating':<10}{'review text':<40}{'game id':<20}")

        for item in results:
            print(f"{item[0]:<20}{item[1]:<50}{item[2]:<15}{item[3]:<10}{item[4]:<40}{item[5]:<20}")
    if tabletoread.casefold() == "user_reviews".casefold():
        print(f"{'id':<20}{'reviewer name':<50}{'review date':<15}{'rating':<10}{'review text':<40}{'game id':<20}")

        for item in results:
            print(f"{item[0]:<20}{item[1]:<50}{item[2]:<15}{item[3]:<10}{item[4]:<40}{item[5]:<20}")

with sqlite3.connect(database) as connection:
    tables = input("Which table would you like to select from?")
    gametable(connection, tables)
#so the basics are done. now is the time to make it better!
#review text data is stupidly big, idk how to make it neat sorry!
```

The code at the bottom allows you to input which table you want to access, which are “games, critic_reviews and user_reviews”. The functions then show you the table that you want to view.
I have tested it multiple times but i still cant find a way to make the viewing of the “critic_reviews” and “user_reviews” tables look neat due to the fact that the review text is big.

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Teacher Checklists:

AS91879- Develop a digital outcome to manage data

Credits: 4
NZQA: https://www.nzqa.govt.nz/ngfdocs/ncea-resource/achievements/2019/as91879.pdf

Achieved- Develop a digital outcome to manage data	**Evidence**	
using appropriate tools and techniques to structure, organise, query and present data for a purpose and end user		✓
applying appropriate data integrity and testing procedures		✓
describing relevant implications.		✓
Merit- Develop an informed digital outcome to manage data		
using information from testing procedures to improve the quality and functionality of the outcome		
structuring, organising and querying the data logically	Minimal functionality	
addressing relevant implications.		
Excellence- Develop a refined digital outcome to manage data		
iterative improvement throughout the development and testing process		
presenting the data effectively for the purpose and to meet end-user requirements.		

Name: Mark:

Develop a computer program

Credits: 4 (Internal)
NZQA: http://www.nzqa.govt.nz/nqfdocs/ncea-resource/achievements/2018/as91883.pdf

Achieved **Develop a computer program**	**Evidence**	
Wrote a program that performs a specific task using a suitable programming language		✓
Set out the program code clearly		✓
Documented the program with comments		✓
Tested and debugged to ensure that it works on a sample of expected cases		✓
Merit **Develop an informed computer program**		
Documented the program with variable names and comments that describe code function and behaviour		
Following conventions of the chosen programming language		
Tested and debugged the program in an organised way to ensure it works on expected and relevant boundary cases		
Excellence **Develop a refined computer program**		
Ensured the program is a well structured logical solution to the task		
Making the program flexible and robust		
Comprehensively tested and debugged the program		

Comments:Very basic program that allows for no interaction with the databases. Enough to pass but not much more. In order to get more I would like to be able to add, remove, and otherwise interact with the databases in some way.

Final grades will be decided using professional judgement based on a holistic examination of

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the evidence provided against the criteria in the Achievement Standard.