Hungar Games Database System

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Who did what:

Team member name	Section(s) you implemented, wrote or designed.	Approximate hours you spent
Lizett Lazaro	- CSV files - Queries	4
Isabel Harden	Project DescriptionQueries	4
Brittney Meza	- ER Diagram - Queries	4
Steven Gresham	 RM Diagram Creation of DB Implementation of CSV Files Queries Final Report 	8

Project Description:

TRIBUTE:

- Every tribute is identified by a unique ID number that is 9 digits long
- Every tribute has a DOB
- Every tribute has a sex.
- Every tribute has an age.
- Every tribute has stats, which consist of a training score, multiple skill sets, and a kill count.
- Every tribute must belong to a single district.
- A tribute may be mentored by several mentors.
- A tribute may be sponsored by several sponsors.
- A tribute may receive several gifts.
- A tribute must be prepared by a prep team.
- A tribute must have one guide.
- Each tribute must be broadcasted by at least one TV Host.

PREP TEAM:

- Every prep team has a unique head stylist.
- Every prep team has a team member in charge of hair.
- Every prep team has a team member in charge of makeup.
- Every prep team has a team member in charge of general beauty.
- Every prep team must prepare one tribute.

SPONSOR:

- Every sponsor has a unique ID consisting of their name and date of birth.
- A sponsor may sponsor several tributes.

TV HOST:

- Every host has a unique ID consisting of their name and date of birth.
- Every host has a number of years working in the industry.
- Each host has an interview team.
- Each host must broadcast at least one tribute.

GUIDE:

- Every guide has a name. (No two guides have the same name)
- Every guide has a date of birth.
- Every guide has a sex.
- A guide must guide at least one tribute.

MENTOR:

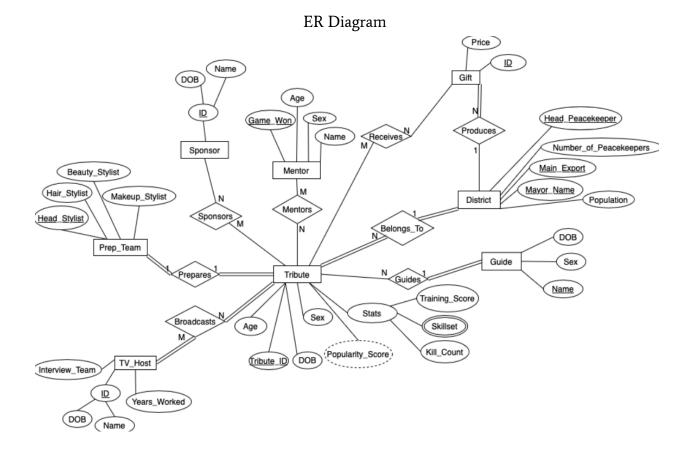
- Every mentor has a name.
- Every mentor has a sex.
- Every mentor has an age.
- Every mentor has a unique game won. (This is Unique)
- A mentor may mentor several tributes.

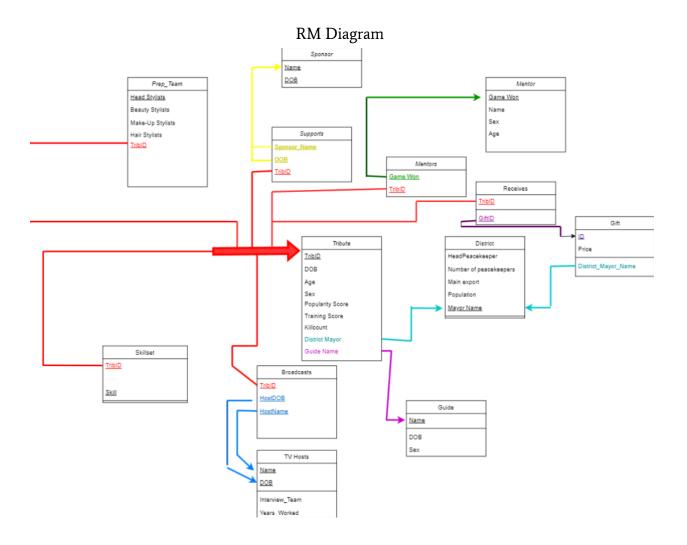
DISTRICT:

- Every district has a unique main export.
- Every district has a unique mayor's name.
- Every district has a population.
- Every district has a unique Head Peacekeeper name.
- Every district has a number of peacekeepers stationed in the district.
- A district must have several tributes.
- A district may produce many gifts.

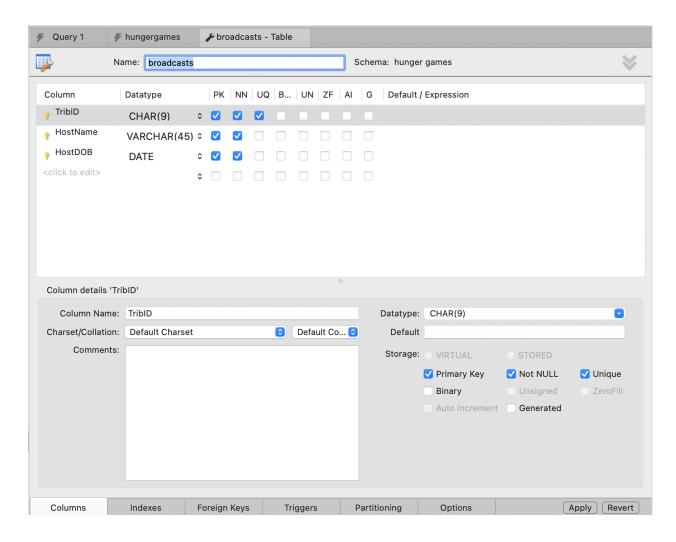
GIFT:

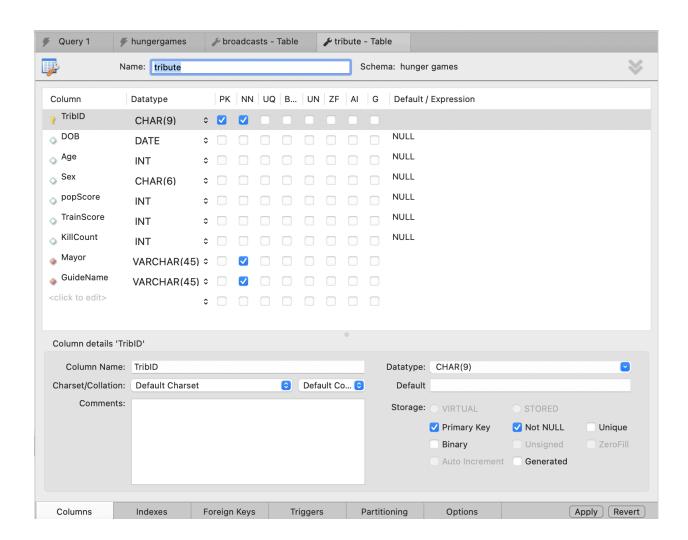
- Each gift has a price.
- Each gift has a unique ID number.
- A gift must be produced in a district.
- A gift may be given to many tributes.

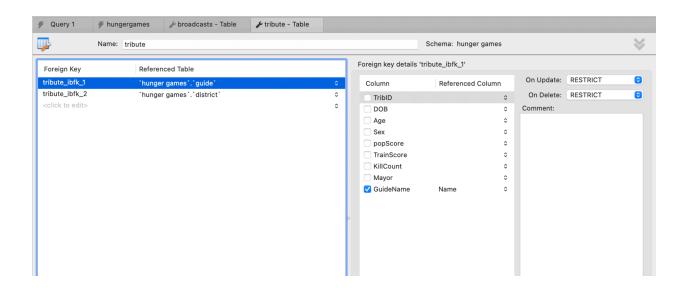


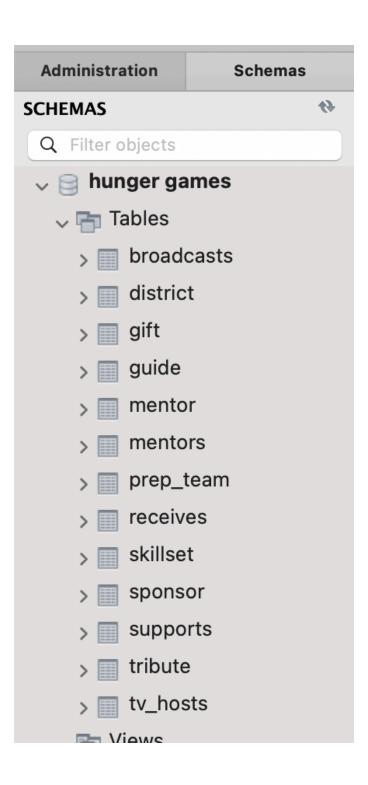


Screenshots of Implementation

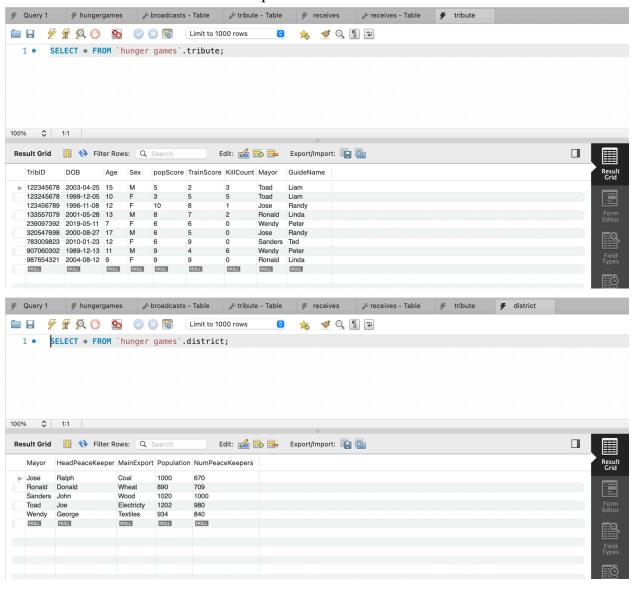


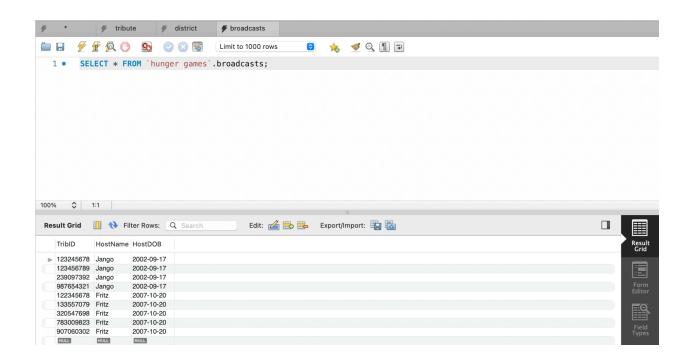






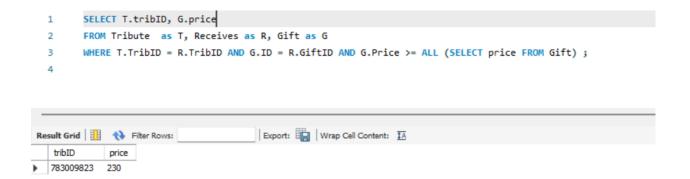
Sample Data of database



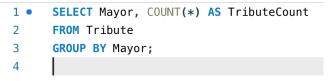


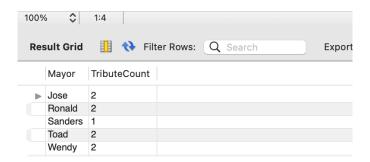
Queries

1. The following query returns the tribute ID from the tribute who received the most expensive gift as well as the gift price.

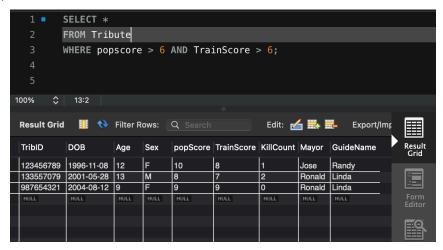


2. This query counts the number of tributes from each district.





3. This query results in tributes who have a population score and training score higher than 6.



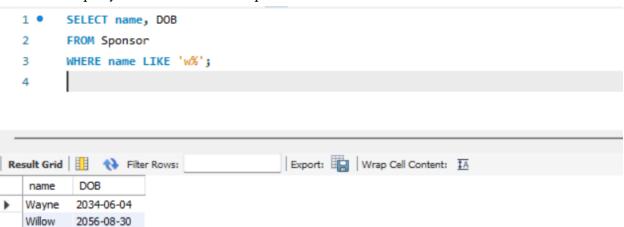
4. This query results in the names of tributes who come from a district with a population greater than 500.



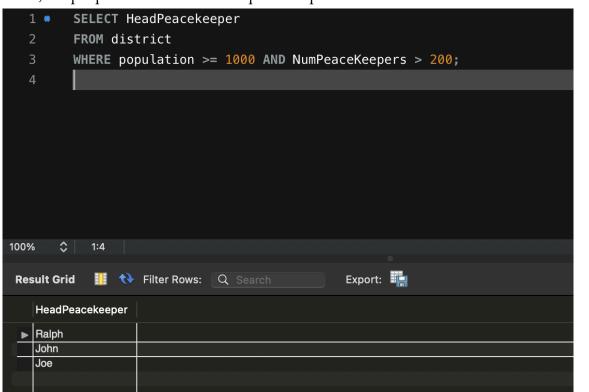
5. This query finds the names of sponsors whose name starts with W:

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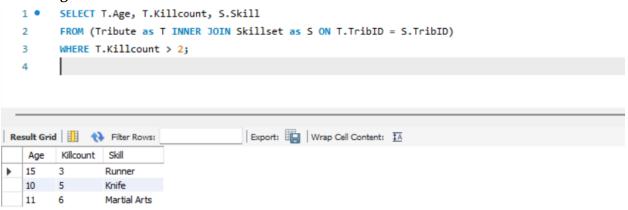
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6. This query finds the names of the head peacekeepers in districts with more than 10,000 people and more than 100 peacekeepers:

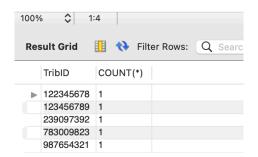


7. This query finds the age, killcount, and skill of the tributes who have a kill count higher than 2.



8. This query finds the number of gifts each tribute receives:

```
1 • SELECT TribID, COUNT(*)
2 FROM Receives
3 GROUP BY TribID;
4
```



Conclusion:

What we learned/ found interesting:

"It was really interesting how connected everything is. It feels like a giant spider web and something new I learned from this particular project is how to create csv files. I also learned how to implement queries into our database and really helped me learn the concepts we have been learning."-Lizett

"I learned how critical it is to stay organized and have a clear mind during the entirety of the process. During the pre-planning process, we had to make sure that the database would make logical sense and already started outlining the foreign keys, primary keys, etc. Then, during the ER diagram, it was crucial to have all of the appropriate relationships outlined so that later in the RM, it would go smoothly. In addition, all of these parts had to be communicated, concise, and clear so that we could pick back up from where each other left it off. Every single step was building up from the last one. Something that I found interesting is how something can come together into a little present (the database)" -Brittney

"I learned how to create a whole database from scratch and how to implement csv files. This project mainly taught me how to think in terms of querying, which I think will be a helpful skill in huge projects in my future career path. I learned the importance of primary keys, foreign keys, and the consequences to having many redundancies. While this project taught me how to view databases in general (how to create what I want into an ER diagram, translate ER to RM, and how RM is essentially the database itself in a visual representation), what I mainly found interesting was querying. Experimenting with it taught me how to correctly view the database. I see now that it really is a collection of sets and tuples- and I almost view it as a venn diagram for certain queries"- Steven