**World Entertainment’s Database and Analysis**

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**Introduction**

There are many different uses of data in a database. One of those uses is for the United Nations chief to have ways of entertaining his or her workers. And so, our group, in addition to coming up with 20 queries for the United Nations chief, has decided to also add three tables of entertainment for the United Nations workers to choose from. The reason why entertainment is important for workers of the United Nations is because sometimes they can get bored from helping other nations get back on their feet if not have their mental health be damaged without entertainment. Another reason as to why having data about entertainment is important for the United Nations is because it boosts the GNP of a lot of different countries. CBS News said that “The Federal Reserve Bank of Philadelphia announced this month that Taylor Swift's tour helped boost travel and tourism in the region, a claim also made by several other U.S. cities regarding the musician's widely popular concerts.” This quote proves that, as evident by this example involving Taylor Swift, entertainment boosts the economy and GNP and is super vital to the world economy. Plus, the workers of the United Nations, in addition to improving their own mental health and satisfying their own entertainment needs, they will be able to know easily for each country, which entertainment media is the most popular, so that they can perhaps use that entertainment to entertain groups of refugees from different displaced groups of people from various parts of the world. This can improve the life expectancy of those refugees because of their mental health also getting better.

**Database Development Process**

**Figure 1**

*Entity-Relation Diagram*

A graph paper with writing on it

Description automatically generated

Coming up with the above final ER diagram took a lot of time and a lot of effort from our group. Other than that, we were able to determine what the primary keys and foreign keys were easily simply by looking to see what elements the different tables have in common just like we were taught in class. Understanding how to determine the keys allowed us to improve our final ER diagram. We started with the first draft of our physical model which we did in MySQL and then we worked our way from there.

**Figure 2**

*Physical Model*

A computer screen shot of a computer

Description automatically generated

**Figure 3**

*Database Schema*

A screenshot of a computer screen

Description automatically generated

Our group figuring out what our primary and foreign keys are led to our database schema. Our primary keys were code, id, country code and first name. From there, we were able to determine what our foreign keys were based on what other tables had those attributes among other attributes that they had in common. Creating our database schema was important for us to do because it allowed us to work on our twenty queries which are discussed later in this essay.

**Database Investigation**

After adding our three entertainment tables, and since it is in the best interest to not only provide the United Nations chief the three tables of the entertainment necessary to entertain her workers, but also to update them with the most updated entertainment information with the twenty queries, our group has decided to create those twenty queries.

**Figure 4**

*Director’s Award*

A screen shot of a computer

Description automatically generated

The purpose of this query is to retrieve information about the directors of different movies and if the director is the same, then join their IDs so that the United Nations chief can see how many movies that specific director has made and whether if any of them are worthy of a United Nations best director’s award. The value of this query is that it combines the two movies if they were made by the same director.

**Figure 5**

*City Info Gathering*

A screenshot of a computer

Description automatically generated

The purpose of this query is to allow for the United Nations Chief to have information about which countries certain cities are in. This information could be useful because if there is a situation where the United Nations is trying to rescue hostages or people displaced from a hostile nation, then it is important to know which country the city is in so that the United Nations understands the situation that they are getting themselves into. The value of this query is that it retrieves information about each city in terms of which country it is located in.

**Figure 6**

*Video Game Developer Info*

A screen shot of a computer

Description automatically generated

The purpose of this query is to allow for the United Nations Chief to have information about the developers of certain video games to verify if the developer is real. This information is important so that the United Nations chief can protect his or her workers from video games that are scams. The value of this query is that it retrieves information about the developer of two video games and if the developers match, then the two entries are combined.  
**Figure 7**

*Music Title and Artist Info*

A screenshot of a computer

Description automatically generated

The purpose of this query is to allow for the United Nations chief to have information regarding what music is available and who wrote that music so that if one of his or her workers asks for that information for song selection, they can have it. The value of this query is that it retrieves information about the title of the song and the artist and if the artist is the same, then it combines those two entries.

**Figure 8**

*Movie Role*

A screenshot of a computer

Description automatically generated

The purpose of this query is to allow for the United Nations chief to have information regarding the roles of movies in terms of the actors and genres. This information could be useful if one of the workers of the United Nations chief asks him or her for that information. The value of this query is that it retrieves movie role information and if the IDs of the movie id matches both the genre id and the actor id, then it combines the two entries.

**Figure 9**

*Huge Population*

A screenshot of a computer

Description automatically generated

The purpose of this query is to allow for the United Nations chief to have data regarding which countries have a population greater than the average population of a country. This information could be useful because it would allow the United Nations to better serve communities that are overcrowded. The value of this query is that it returns a list of countries where the population is greater than the average population of all the countries.

**Figure 10**

*Movies Released in the Same Year*

A screenshot of a computer

Description automatically generated

The purpose of this query is to allow the United Nations chief to find movies that have been released in the same year as a specific movie, and what their titles are. This information could be useful if one of the workers ask for that information from the UN chief. The value of this query is that it returns a list of all the movies released in the same year as a specific movie.

**Figure 11**

*Video Game Companies that have more than one game out*

A computer screen shot of a computer screen

Description automatically generated

The purpose of the query is to allow the United Nations chief to retrieve information regarding which video game companies have released more than one video game. This information could be useful if one of the UN workers ask the UN chief for that information for the own entertainment needs. The value of this query is that it returns a list of the video game companies that have more than one game out.

**Figure 12**

*Most Common Music Genre*

A screenshot of a computer

Description automatically generated

The purpose of this query is to allow the United Nations chief to retrieve information regarding what is the most popular and common music genre. This information could be useful if UN workers ask the United Nations chief for that information to better their entertainment needs. The value of this list is that it returns a list of five possible most common music genres.

**Figure 13**

*Population in France, Germany, and Italy*

A close up of a sign

Description automatically generated

The purpose of this query is to allow the United Nations chief to retrieve information regarding the population of France, Italy, and Germany. This information could be useful if the EU asks the United Nations for advice on immigration control for example. The value of this query is that it returns the population of all three of those countries.

**Figure 14**

*Country with all the vowels and no spaces in their name*

A screenshot of a computer

Description automatically generated

The purpose of this query is to allow the United Nations chief to find the country with all the vowels and no spaces in their name. This information could be useful if that country is experiencing some sort of crisis where that country needs UN aid. The value of this query is that it returns the country with all the vowels and no spaces in their name.

**Figure 15**

*Japanese Video Games*

A screenshot of a computer program

Description automatically generated

The purpose of this query of to allow the United Nations chief to gather information on which video games are in Japanese. This information could be useful if one of the United Nations workers asks the UN chief for that information to satisfy their entertainment needs. The value of this query is that it returns a list of all the video games that are Japanese.

**Figure 16**

*Countries that have released a movie*

A computer code with black text

Description automatically generated with medium confidence

The purpose of this query is to allow the United Nations chief to gather information on which countries have released at least one movie. This information could be useful if a particular country has refugees that need to be entertained and so it would be useful for the UN chief to know if that country has released any movies. The value of this query is that it returns a list of all the countries that have released at least one movie.

**Figure 17**

*Entertainment Released in 2023*

A screenshot of a computer program

Description automatically generated

The purpose of this query is to allow the UN chief to gather information on what video games, movies and music were released in 2023. This information could be useful if the UN workers decide that they want to enjoy entertainment that is more modern. The value of this query is that it returns a list of all the entertainment released in the year 2023.

**Figure 18**

*Video Games and their publishers*

A screenshot of a computer code

Description automatically generated

The purpose of this query is to allow the UN chief to gather information on video games and their publishers. This information could be useful if the UN workers decide that they want to know who made the video games that they are playing. The value of this query is that it returns a list of all the video games and their publishers.

**Figure 19**

*Countries that are independent*

A screenshot of a computer

Description automatically generated

The purpose of this query is to allow the UN chief to gather information on which countries have already gained independence and when their independence was granted. This information could be useful if one of the countries has a refugee crisis in which case it would be important for the UN to know whether if that country is independent or not. The value of this query is that it returns a list of all the countries who are independent and when their independence was granted.

**Figure 20**

*Countries with more than one Official Language*

A screen shot of a computer

Description automatically generated

The purpose of this query is to allow the UN chief to gather information on which countries have more than one official language. This information could be useful if one of the countries has internal conflict and the UN must intervene and so it would be important for the UN to know whether if the people within that country are fluent in more than one language. The value of this query is that it returns a list of all the countries that speak more than one language.

**Figure 21**

*Most Spoken Language for each country*

A close-up of a computer screen

Description automatically generated

The purpose of this query is to allow the UN chief to gather information on what the most spoken language is within each country. This information could be useful in case of internal conflict within a country and the UN must intervene and so it is important for the United Nations to know which language is the most likely language that the most people understand. The value of this query is that it returns a list of all the countries and the language that is spoken the most.

**Figure 22**

*Percentage of a language used globally*

A close-up of a white background

Description automatically generated

The purpose of this query is that it allows for the UN chief to gather information on the percentage of a language used globally. This information could be useful in case if one country is dealing with internal conflict and the UN must intervene and so it would be important for the UN to know what percentage of the world speaks that language so that they can better deal with the situation at hand. The value of this query is that it returns the percentage of that language being spoken around the world.

**Figure 23**

*Countries where the official language is English and above a certain threshold*

A screenshot of a computer

Description automatically generated

The purpose of this query is to allow the UN chief to gather information on which countries has English as the official language and if it is above a certain threshold. This information could be useful one of the UN workers only speaks English and the chief wants to know if that UN worker would be good for the job because of the other people within that country also speaking English. The value of this query is that it returns a list of all the countries where the official language is English and above a certain threshold.

**Summary**

The database exercise allowed us to learn how to work better as a team. And during the time of us working together as a team, we were able to learn new things. Kevin learned how to come up with good entertainment lists in addition to learning how to write better essays and ER diagrams. Zhengting learned how to come up with a good physical model from our ER diagram along with how to write the code for queries for a database and Kourosh learned how to come up with a good class presentation. We were also able to learn the importance of all our data within our world database and how it all could potentially be used by the UN for important case scenarios. The only pitfall that our group ran into was coming up with good relevant reasons as to why each query was important, but other than that, this project was pretty good and interesting.

**References**

CBS News. (n.d.). *The Federal Reserve says Taylor Swift's Eras Tour boosted the economy. One market research firm estimates she could add $5 billion.* CBS News.

<https://www.cbsnews.com/news/taylor-swift-eras-tour-boosted-economy-tourism-federal-reserve-how-much-money-made/>