**Assignment 2 – Brayden Sampson**

The data collected by the TOED database would be data on all movies and tv shows. All entries would have data on genre, duration, year, lead actors/actresses etc. The database would also collect data on the TOED rating, which would be a professional rating, as well as a user rating which would be contributed by the public. The company TOED would be the owners of the database and would be managed by the database managers within the company. Since this is most of the business, there would be a team of employees to complete this task. However, anyone can access the database to see all necessary data on a specific movie or show. In terms of the data tables, there would most likely only be 2 tables (movies and tv shows). Both tables would be collecting virtually identical data with minor differences. For example, the show table might add number of episodes.

Business questions:

1. What movies from 1997 got above a 75% rating?
   1. Select: M\_name, M\_genre, M\_duration, M\_year, TOED\_rating, User\_rating
   2. From: Movie
   3. Where: TOED\_rating >= 75%
2. What horror movies where released this year?
   1. Select: M\_name, M\_genre, M\_duration, M\_year, TOED\_rating, User\_rating
   2. From: Movie
   3. Where: M\_genre = Horror, And M\_year = 2021
3. What movies has Quinten Tarantino directed?
   1. Select: M\_name, M\_year, TOED\_rating, User\_rating
   2. From: Movie
   3. Where: M\_director = Quinten Tarantino
4. What tv shows are rated higher than 85% by the public?
   1. Select: S\_name, S\_genre, S\_seasons, S\_episodes, S\_year, User\_rating
   2. From: Show
   3. Where: User\_rating >= 85%
5. What movies has Quinten Tarantino directed that star Leonardo DiCaprio?
   1. Select: M\_name, M\_genre, M\_duration, M\_year, TOED\_rating, User\_rating
   2. From: Movie
   3. Where: M\_director = Quinten Tarantino, And Lead\_act = Leonardo DiCaprio
6. What shows have more than 5 seasons?
   1. Select: S\_name, S\_genre, S\_seasons, S\_episodes, TOED\_rating, User\_rating
   2. From: Show
   3. Where: S\_seasons >= 5
7. What are the worst action movies released in the last 5 years?
   1. Select: M\_name, M\_genre, M\_year, TOED\_rating, User\_rating
   2. From: Movie
   3. Where: M\_year >= 2016, And M\_genre = Action, And TOED\_rating <= 30%
8. Is there a movie that has received a rating from the public above 90%?
   1. Select: M\_name, M\_year, M\_genre, User\_rating
   2. From: Movie
   3. Where: User\_rating >= 90%
9. What shows star Samuel L. Jackson?
   1. Select: S\_name, S\_year, Lead\_act
   2. From: Show
   3. Where: Lead\_act = Samuel L. Jackson
10. What comedies were released in 2010?
    1. Select: M\_name, M\_genre, M\_duration, TOED\_rating
    2. From: Movie
    3. Where: M\_genre = Comedy, And M\_year = 2010
11. Is there any movies with a perfect professional rating?
    1. Select: M\_name, M\_genre, M\_duration, TOED\_rating
    2. From: Movie
    3. Where: TOED\_rating = 100%
12. Who is the director of the film “Knives Out”?
    1. Select: M\_director, M\_name, M\_year, M\_duration, M\_genre
    2. From: Movie
    3. Where: M\_name = Knives Out, and M\_year = 2019
13. What movies are shorter than an hour?
    1. Select: M\_duration, M\_name, M\_year, M\_genre
    2. From: Movie
    3. Where: M\_duration < 60 minutes
14. What tv shows are limited series?
    1. Select: S\_name, S\_year, S\_episodes, S\_genre
    2. From: Show
    3. Where: S\_seasons = 1
15. What are some of the best comedy shows of the past year?
    1. Select: S\_name, S\_year, S\_episodes, S\_genre, S\_seasons
    2. From: Show
    3. Where: S\_genre = Comedy, And S\_year = 2021, And TOED\_rating >= 75%
16. What thriller films have a user rating above 80?
    1. Select: M\_name, M\_year, M\_genre, M\_duration, User\_rating
    2. From: Movie
    3. Where: M\_genre = Thriller, And User\_rating >= 80%
17. Who stars in the tv show “Ozark”?
    1. Select: Lead\_act, S\_name, S\_year, S\_genre, TOED\_rating
    2. From: Show
    3. Where: S\_name = Ozark

My partner’s name is Nicholas Wiebler and his database is an eBay Inventory Database collecting data on products, customers, orders etc. This sort of database is essential for his business as it keeps all data on how the business is running. Having a running record of everything the business is doing can help the business move forward with crucial decisions in the future. For example, he could analyze the database to determine the best-selling pair of shoes and increase inventory accordingly. Analyzing this data is necessary to continue making profits as an online business

Business Questions:

1. What socks does the store sell?
   1. Select: Prod\_ID, Prod\_type, Prod\_brand
   2. From: Product
   3. Where: Prod\_type = Socks
2. What employees worked over 40 hours this week?
   1. Select: Emp\_ID, Emp\_lname, Emp\_fname, Emp\_job, Hours
   2. From: Employee
   3. Where: Hours >= 40
3. How many total orders were placed on the 6th of September?
   1. Select: Order\_num, Order\_time, Cost, Customer\_ID, Date
   2. From: Orders
   3. Where: Date = 09/06/21