

Backend Development

for OTT Platform

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- A total of 8 tables i.e., Users, Movies, WebSeries, Genres, Movie_Genres, WebSeries_Genres, User_Movies & User_WebSeries are created.
- Sample data has been inserted into the respective tables.
- Various queries have been implemented to retrieve the data in a number of meaningful ways. They are mentioned below :
 - Retrieve number of seasons along with WebSeries ID.
 - Retrieve Movies & WebSeries along with their genres.
 - Retrieve Movies & WebSeries watched by a specific user.
 - Retrieve Movies & WebSeries that are not watched by anyone.
 - Retrieve Movies & WebSeries from a specific genre.
 - Retrieve all genres associated with a specific Movies or WebSeries.
 - Retrieve the most-watched Movies & WebSeries.
 - Retrieve the list of users who have watched a specific Movies or WebSeries.
 - Retrieve users who haven't watched any Movie or WebSeries.
 - Retrieve the count and Movies & WebSeries watched by a user.

- Retrieve the most recently watched Movie or WebSeries by a user.
- Retrieve Movies and WebSeries watched by a specific user together.

- OPTIMISING :

- Appropriate datatypes have been used for the attributes.
- The varchar size has been reduced to appropriate length by altering the table.
- Indexing has been done by identifying columns that are frequently used in search conditions or JOIN operations.
- Normalizing the schema has been implemented by breaking down tables into smaller, logically related tables and establishing relationships through primary and foreign keys.
- Optimized the queries by avoiding unnecessary joins & using appropriate WHERE clauses to filter the data.
- Used LIMIT to preview query results.
- Selected only the columns we needed.

