

**CSE464: Advanced Database Systems**

**(Section 02)**

**[SUMMER 2023]**

**Project Report**

Project/Application Title:

**Movie Review Site**

**Submitted by:**

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**Introduction:**

This project report presents the design and implementation of a Movie Review Site Database. The database is created to support a movie review website where users can explore movies, leave reviews, and learn about the cast and crew behind their favorite films. This comprehensive database covers various aspects of the movie industry, including user profiles, actors, directors, movies, reviews, productions, and awards.

**Database Schema Overview:**

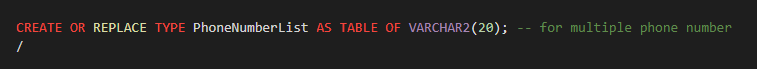
**1. User Profiles (Users)**

* Stores user information, including user ID, personal details, email addresses, and phone numbers.

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* Utilizes custom data types such as **PhoneNumberList** and **PersonType** for efficient data structuring.



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* Demonstrates the ability to create nested tables to handle multiple phone numbers for each user.

**2. Directors**

* Stores information about movie directors, including their personal details, email addresses, and phone numbers.

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* Also utilizes custom data types and nested tables for robust data management.

**3. Actors**

* Stores information about actors, including their personal details and email addresses.

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* Utilizes custom data types for efficient data organization.

**4. Movie Productions (Production)**

* Contains information about movie production companies, including their names, founding years, founders' details, email addresses, and phone numbers.

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* Demonstrates the use of nested tables for handling founder information and phone numbers.



**5. Movies**

* Stores comprehensive movie data, including titles, release years, genres, production companies, and descriptions.

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* Maintains a relationship with directors through foreign keys.

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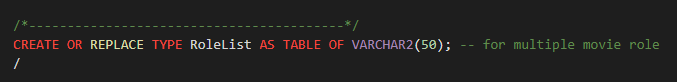
* Utilizes custom data types and nested tables for genres and production companies.

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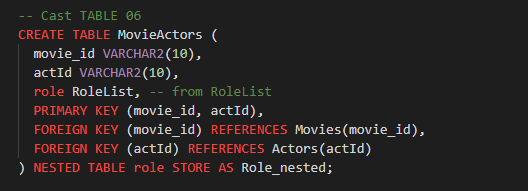
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**6. Movie Actors (MovieActors)**

* Represents the roles played by actors in movies.



* Includes movie ID, actor ID, and the role(s) they portrayed.



* Ensures referential integrity with foreign keys to Movies and Actors tables.

**7. Movie Reviews (Reviews)**

* Stores movie reviews, including review IDs, movie IDs, ratings, comments, and timestamps.

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* Demonstrates the use of custom data types, including **CommentsType**, and ensures data integrity through foreign keys.

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**8. Awards**

* Contains information about awards received by individuals or entities in the movie industry.

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* Utilizes custom data types such as **AwardType** and **AwardList** to efficiently manage multiple awards.

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**Database Objects:**

To efficiently format data and preserve consistency, the project specifies a number of special data types, including PhoneNumberList, PersonType, FounderList, ProductionType, GenreList, MovieType, RoleList, CommentsType, AwardType, and AwardList.

**Data Insertion:**

Sample data for users, directors, actors, production companies, movies, movie-actor relationships, reviews, and awards is inserted into the database for demonstration purposes. These samples illustrate how the database can be populated with real-world data.

**Samples:**

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**Conclusion:**

This Movie Review Site Database project serves as a robust foundation for a user-friendly and informative movie review website. Users can create profiles, explore movie details, leave reviews, and discover information about the cast and crew. The database design employs best practices in data modeling and management, including the use of custom data types and nested tables for efficient data structuring. It provides a comprehensive solution for managing and querying movie-related data, offering an engaging experience for movie enthusiasts and reviewers.

Overall, this project demonstrates a practical application of database design and management concepts and can serve as a valuable resource for movie-related websites and applications.