

OTT Database

Entities and Attributes

1. Ads

- Attributes:
 - **ad_id** (Primary Key)
 - **product_name**
 - **website**
 - **times_shown**

2. Group

- Attributes:
 - **group_id** (Primary Key)
 - **group_name**
 - **created_on**

3. Users

- Attributes:
 - **user_id** (Primary Key)
 - **name**
 - **email**
 - **phone_number**
 - **password**
 - **created_date**
 - **is_premium** (Boolean)

4. Premium_User (Weak Entity)

- Attributes:
 - **start_date**
 - **sub_times** (Number of times subscription renewed)
 - **card_type**

5. Subscription Plan

- Attributes:
 - **subscription_id** (Primary Key)
 - **plan_name**
 - **duration** (in days/months/years)
 - **plan_type** (e.g., Basic, Standard, Premium)

6. Watch_History

- Attributes:
 - **history_id** (Primary Key)
 - **watched_duration** (in minutes)
 - **last_watched_at** (timestamp)

- **status** (e.g., completed, in-progress)
 - 7. **Content(Super Type)**
 - **Attributes:**
 - **content_id** (Primary Key)
 - **content_name**
 - **release_date**
 - **revenue_earned**
 - **age_restriction**
 - **language**
 - **genre**
 - 8. **Movies (Subtype of Content)**
 - **Attributes:**
 - **duration** (in minutes)
 - **box_office_collection**
 - 9. **Series (Subtype of Content)**
 - **Attributes:**
 - **seasons**
 - **episodes**
 - **runtime_per_episode**
 - 10. **Documentation (Subtype of Content)**
 - **Attributes:**
 - **subject**
 - **run_time**
 - 11. **Cast**
 - **Attributes:**
 - **cast_id** (Primary Key)
 - **cast_name**
 - **revenue_charged**
 - **cast_type** (e.g., lead, supporting)
 - 12. **Rating_Reviews**
 - **Attributes:**
 - **review_id** (Primary Key))
 - **rating** (e.g., out of 5 stars)
 - **review_text**
 - **review_date**
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Relationships Between Entities

1. Ads → Group

- **Relationship Name:** *"Targeted By"*
 - **Type:** One-to-Many
 - **Description:** Each ad is targeted at one or more user groups.
- 2. Group → Users**
- **Relationship Name:** *"Belongs To"*
 - **Type:** One-to-Many
 - **Description:** Each premium user belongs to one group.
- 3. Users → Premium_User**
- **Relationship Name:** *"Upgrades To"*
 - **Type:** One-to-One
 - **Description:** A user can upgrade to become a premium user.
- 4. Premium_User → Subscription Plan**
- **Relationship Name:** *"Subscribes To"*
 - **Type:** Many-to-One
 - **Description:** A premium user subscribes to one subscription plan.
- 5. Users → Watch_History**
- **Relationship Name:** *"Has Watched"*
 - **Type:** One-to-Many
 - **Description:** Each user can have multiple entries in their watch history.
- 6. Watch_History → Content**
- **Relationship Name:** *"Watched"*
 - **Type:** Many-to-One
 - **Description:** Each watch history entry corresponds to one content item.
- 7. Content → Rating_Reviews**
- **Relationship Name:** *"Reviewed By"*
 - **Type:** One-to-Many
 - **Description:** Each content item can have multiple reviews.
- 8. Users → Rating_Reviews**
- **Relationship Name:** *"Gives"*
 - **Type:** One-to-Many
 - **Description:** Each user can provide multiple reviews.
- 9. Content → Cast**
- **Relationship Name:** *"Performed By"*
 - **Type:** Many-to-Many
 - **Description:** Each content item can have multiple cast members, and each cast member can be part of multiple content items.
- 10. Content → Movies/Series/Documentation**
- **Relationship Name:** *"Type Of"*
 - **Type:** One-to-One
 - **Description:** Content can be of type Movie, Series, or Documentation.

Conceptual ERD:-

