

Centralized Streaming Service Catalog

Project
Presentation

Spring 2024





Problem Statement

Online streaming services face significant challenges in managing extensive movie catalogs, diverse subscription options, and user preferences while ensuring data accuracy and providing a hassle-free user experience in subscription management and information updates.





Project Vision Statement

- 1 Implement a user-friendly database
- 2 Develop a robust streamline Content and Subscription Management System
- 3 Support Data Integrity and Security

Project Roles



app_admin

Have all the privileges



Transaction Manager

Have access to transaction, subscription, and user tables



Customer

Have partial access to the customer and show the table. certain views and procedures as well.

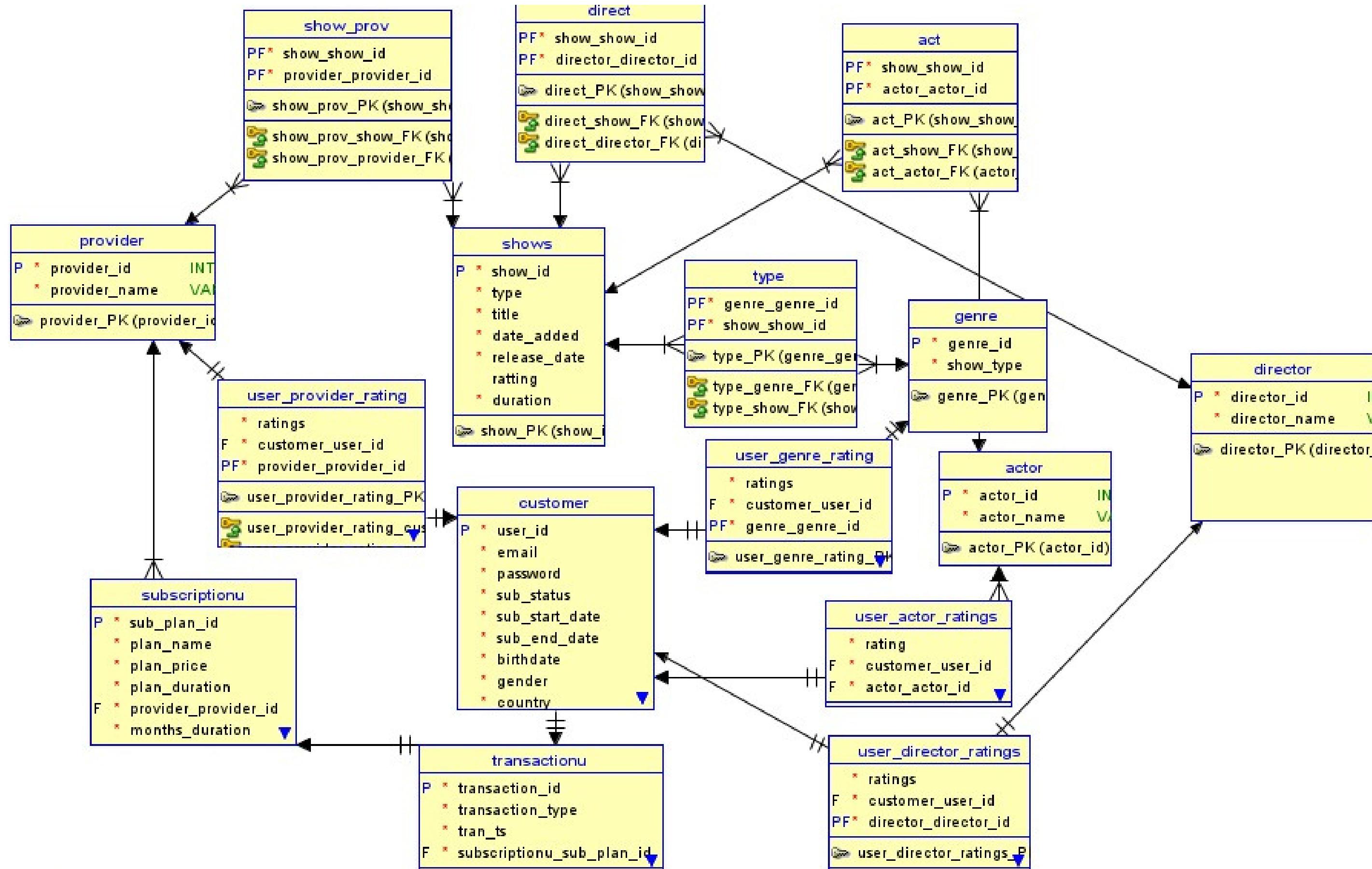


Content Manager

Have access to shows, director, actor, and genre table.



ER Diagram





Customer Work Flow



User Register



User Pays



Can Access Shows
and Ratings



Give Ratings

List of Views

- view_subscription_info
- regional_age_preferences
- combined_affection_ratings
- view_provider_annual_income
- subscription_peak_periods_extended



List of Procedures

- handle_subscription_action
- update_customer_profile
- InsertActorRating
- InsertDirectorRating
- InsertGenreRating
- InsertProviderRating
- InsertShowRating
- PurchaseSubscriptionPlan
- insert_new_customer



List of Functions and Packages

- Functions
 - check_table_exists
 - get_popular_shows
- Packages
 - show_management_pkg
 - Procedures within the package:
 - recreate_sequence
 - insert_new_show





Report 1: combined_affection_ratings

	CATEGORY	ID	NAME	AVERAGE_RATING
1	Actor	1	Bryan Cranston	5
2	Actor	2	Aaron Paul	4
3	Actor	3	Bob Odenkirk	2
4	Actor	4	Scarlett Johansson	4
5	Actor	5	Morgan Freeman	3.5
6	Actor	6	Hailee Steinfeld	3
7	Director	7	George Vincent	5
8	Director	8	John Shiban	3
9	Director	9	Luc Besson	2
10	Director	10	Pascal Charrue	3.5
11	Director	11	Michelle MacLaren	4.5
12	Director	12	Justin K. Thompson	2.67
13	Provider	1	Netflix	4.17
14	Provider	2	HuluTV	2.75
15	Show	101	Breaking Bad	4.5
16	Show	102	Better Call Saul	1
17	Show	103	Lucy	3
18	Show	104	Arcane: League of Legends	2
19	Show	105	The Walking Dead	4.33
20	Show	106	Spider-Man: Across the Spider-Verse	2



Report 2: regional_age_preferences

	COUNTRY	GENDER	AGE	GENRE	AVERAGE_RATING
1	Canada	F	68	Crime Drama	2
2	Spain	F	60	Adventure	5
3	Australia	M	21	Legal Drama	4
4	Spain	F	10	Legal Drama	1
5	UK	F	48	Animation	5
6	UK	F	48	Action	2
7	Spain	F	10	Action	2
8	Spain	F	60	Crime Drama	1
9	Spain	F	55	Legal Drama	2
10	Spain	F	55	Action	4



Report 3: subscription_peak_periods_extended

	YEAR	MONTH	PROVIDER_NAME	PLAN_NAME	AVG_DURATION_MONTHS	TOTAL_SUBSCRIPTIONS
1	2023	3	HuluTV	Prime Plan	6	2
2	2024	1	HuluTV	Prime Plan	6	1
3	2021	6	HuluTV	Basic Plan	3	1
4	2022	3	Netflix	Basic Plan	3	1
5	2023	3	HuluTV	Basic Plan	3	1
6	2022	3	HuluTV	Prime Plan	6	1
7	2021	3	HuluTV	Prime Plan Plus	9	1
8	2022	2	HuluTV	Basic Plan	3	1
9	2023	11	Netflix	Prime Plan	6	1
10	2024	3	Netflix	Prime Plan Plus	9	1
11	2024	3	Netflix	Basic Plan	3	1
12	2024	2	HuluTV	Prime Plan	6	1
13	2023	12	Netflix	Prime Plan Plus	9	1
14	2021	3	Netflix	Prime Plan Plus	9	1
15	2022	3	Netflix	Prime Plan Plus	9	1
16	2021	12	Netflix	Prime Plan	6	1
17	2021	1	HuluTV	Prime Plan	6	1
18	2024	3	HuluTV	Basic Plan	3	1
19	2022	5	Netflix	Prime Plan Plus	9	1



Report 4 :

view_provider_annual_income

	◊ PROVIDER_ID	◊ PROVIDER_NAME	◊ YEAR	◊ ANNUAL_INCOME
1		1 Netflix	2021	42
2		1 Netflix	2022	59
3		1 Netflix	2023	42
4		1 Netflix	2024	60
5		2 HuluTV	2021	51
6		2 HuluTV	2022	26
7		2 HuluTV	2023	43
8		2 HuluTV	2024	43



Report 5: view_subscription_info

#	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS	INSERTABLE	UPDATABLE	DELETABLE
1	TRANSACTION_ID	NUMBER(38)	No	(null)	1	(null)	YES	YES	YES
2	TRANSACTION_TYPE	VARCHAR2(20 CHAR)	No	(null)	2	(null)	YES	YES	YES
3	TRANSACTION_TIMESTAMP	TIMESTAMP(2) WITH LOCAL TIME ZONE	Yes	(null)	3	(null)	YES	YES	YES
4	SUB_PLAN_ID	NUMBER(38)	Yes	(null)	4	(null)	NO	NO	NO
5	PLAN_NAME	VARCHAR2(20 CHAR)	Yes	(null)	5	(null)	NO	NO	NO
6	PLAN_PRICE	NUMBER(38)	Yes	(null)	6	(null)	NO	NO	NO
7	MONTHS_DURATION	NUMBER(38)	Yes	(null)	7	(null)	NO	NO	NO
8	PROVIDER_PROVIDER_ID	NUMBER(38)	Yes	(null)	8	(null)	NO	NO	NO
9	PROVIDER_NAME	VARCHAR2(20 CHAR)	Yes	(null)	9	(null)	NO	NO	NO
10	USER_ID	NUMBER(38)	Yes	(null)	10	(null)	NO	NO	NO
11	EMAIL	VARCHAR2(50 CHAR)	Yes	(null)	11	(null)	NO	NO	NO
12	SUB_STATUS	VARCHAR2(50 CHAR)	Yes	(null)	12	(null)	NO	NO	NO
13	SUB_START_DATE	DATE	Yes	(null)	13	(null)	NO	NO	NO
14	SUB_END_DATE	DATE	Yes	(null)	14	(null)	NO	NO	NO
15	COUNTRY	VARCHAR2(50)	Yes	(null)	15	(null)	NO	NO	NO
16	BIRTHDAY	DATE	Yes	(null)	16	(null)	NO	NO	NO
17	GENDER	CHAR(1)	Yes	(null)	17	(null)	NO	NO	NO

DATA MODELING: JENNY, JINJIE
DDL: JENNY
DML: JIANPING
VIEWS: JINJIE
PROCEDURES, TRIGGERS, REPORTS, FUNCTIONS, PACKAGES : JINJIE, JIANPING, JENNY
ROLES: JIANPING, JENNY

OVERALL, THE DIVERSE SKILL SETS OF OUR TEAM CREATED A COLLABORATIVE ENVIRONMENT IN WHICH EVERY ASPECT OF THE DATABASE WAS CAREFULLY DESIGNED AND MANAGED.





Thank you



Jianping Ni



Jinjie Zhou



Jenny Patel