## Section 1: Overview

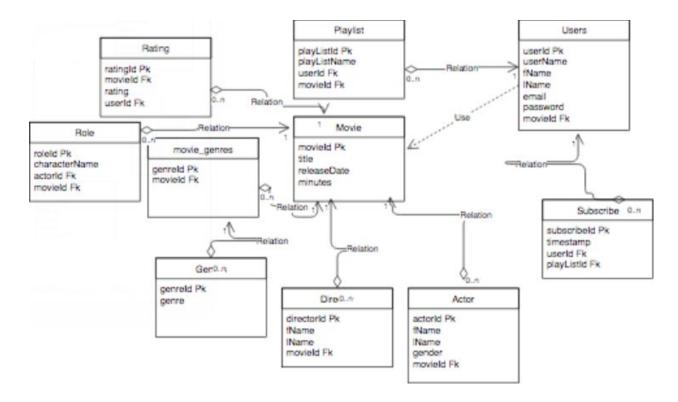
We are creating a web application that users can use to organize and store their movies. This software is intended to be able to store, filter and rate the users movies. Our users will be able to log into our Web based application with the goal of storing and viewing their movies. User will be able to Rate their favorite movies and add them to a playlist. Users will be able to view other users profiles and view their favorite movies. The rating system consists of an Plus or Minus system. Using the web based client, users will also be able to play their stored movies through an HTML 5 based video player. Users can rate, subscribe and follow other users profiles based on their taste in movies. The name of the web application is called MoviesGalore.

## **Functional Specifications**

- Must allow users to login.
- Must allow users to store their movies.
- Must allow users to rate their own movies.
- Should allow users to create their own playlists.
- Should allow users to subscribe to other users.
- Should allow users to rate other users profiles.
- Must allow users to edit their movies
- Must allow users to delete their movies
- Must allow users to view other users
- Must allow users to play th movies
- Must allow non-users to view other users
- Must allow non-users to register

Our database stores specific movie information to allow our users to enjoy a unique movie experience. Our Database stores information about movies and their counterparts. Such as title, director, actresses, year, popularity and rating. Our database will also keep track of users profiles, including their subscription to other users, their likes and their current login session.

## Section 2:UML Diagram



Section 3: Functional Dependencies

There is no need for functional dependencies for our database since the database is in Boyce Codd Normal form BCNF. There is no need for our database to contain any sort of redundant information. With that being said our database does not allow any functional dependencies, because of the fact of our primary key constraints.

## Section 4: Assertions

Although assertions are not supported in oracle SQL. They are supported in Mysql, MariaDB ETC. So here are some assertions that we would have implemented if they were necessary. Our need assertions are handled by our constraints.

```
SELECT * FROM RATING
     WHERE RATINGID <= 5)
);
-- Makes sure USERNAME is never null
Create ASSERTION CHECKUSERNAME AS CHECK(
NOT EXISTS(
     SELECT * FROM USERS
     WHERE USERNAME IS NULL)
);
                           Section 5: Queries
-- DDL for Table ACTOR
CREATE TABLE "MOVIESGALORE"."ACTOR"
 ( "ACTORID" NUMBER(*,0),
 "FNAME" VARCHAR2(20 BYTE),
 "LNAME" VARCHAR2(20 BYTE),
 "GENDER" CHAR(1 BYTE),
 "MOVIEID" NUMBER(*,0)
 ) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT
FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "SYSTEM";
-- DDL for Table DIRECTOR
CREATE TABLE "MOVIESGALORE". "DIRECTOR"
 ( "DIRECTORID" NUMBER(*,0),
 "FNAME" VARCHAR2(20 BYTE),
 "LNAME" VARCHAR2(20 BYTE),
 "MOVIEID" NUMBER(*,0)
```

) SEGMENT CREATION IMMEDIATE PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT) TABLESPACE "SYSTEM"; -- DDL for Table GENRES CREATE TABLE "MOVIESGALORE". "GENRES" ( "GENREID" NUMBER(\*,0), "GENRE" CHAR(20 BYTE) ) SEGMENT CREATION IMMEDIATE PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT) TABLESPACE "SYSTEM"; -- DDL for Table MOVIE CREATE TABLE "MOVIESGALORE". "MOVIE" ( "MOVIEID" NUMBER(\*,0), "TITLE" VARCHAR2(50 BYTE), "RELEASEDATE" DATE, "MINUTES" NUMBER(\*,0) ) SEGMENT CREATION IMMEDIATE PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT) TABLESPACE "SYSTEM"; -- DDL for Table MOVIE\_GENRES CREATE TABLE "MOVIESGALORE". "MOVIE\_GENRES" ( "GENREID" NUMBER(\*,0), "MOVIEID" NUMBER(\*,0) ) SEGMENT CREATION IMMEDIATE PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT) TABLESPACE "SYSTEM": -- DDL for Table PLAYLIST CREATE TABLE "MOVIESGALORE". "PLAYLIST" ( "PLAYLISTID" NUMBER(\*,0), "PLAYLISTNAME" VARCHAR2(20 BYTE), "USERID" NUMBER(\*,0), "MOVIEID" NUMBER(\*,0) ) SEGMENT CREATION IMMEDIATE PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT) TABLESPACE "SYSTEM"; -- DDL for Table RATING CREATE TABLE "MOVIESGALORE". "RATING" ( "MOVIEID" NUMBER(\*,0), "USERID" NUMBER(\*,0), "RATING" VARCHAR(20 BYTE), "RATINGID" NUMBER(\*,0) ) SEGMENT CREATION IMMEDIATE PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT) TABLESPACE "SYSTEM"; -- DDL for Table ROLE CREATE TABLE "MOVIESGALORE". "ROLE" ( "ROLEID" NUMBER(\*,0), "CHARACTERNAME" VARCHAR2(20 BYTE), "ACTORID" NUMBER(\*,0), "MOVIEID" NUMBER(\*,0)

```
) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT
FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "SYSTEM";
-- DDL for Table SUBSCRIBE
CREATE TABLE "MOVIESGALORE". "SUBSCRIBE"
 ( "SUBSCRIBEID" NUMBER(*,0),
 "TIMESTAMP" TIMESTAMP (6),
 "USERID" NUMBER(*,0),
 "PLAYLISTID" NUMBER(*,0)
 ) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT
FLASH CACHE DEFAULT CELL FLASH CACHE DEFAULT)
TABLESPACE "SYSTEM";
-- DDL for Table USERS
CREATE TABLE "MOVIESGALORE". "USERS"
 ( "USERID" NUMBER(*,0),
 "USERNAME" VARCHAR2(20 BYTE),
 "FNAME" VARCHAR2(20 BYTE),
 "LNAME" VARCHAR2(20 BYTE),
 "EMAIL" VARCHAR2(30 BYTE),
 "PASSWORD" VARCHAR2(20 BYTE),
 "MOVIEID" NUMBER(*,0)
 ) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT
FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "SYSTEM";
-- DDL for Sequence RATING_SEQ
```

CREATE SEQUENCE "MOVIESGALORE". "RATING SEQ" MINVALUE 1 MAXVALUE NOCYCLE: REM INSERTING into MOVIESGALORE.ACTOR SET DEFINE OFF: REM INSERTING into MOVIESGALORE.DIRECTOR SET DEFINE OFF: REM INSERTING into MOVIESGALORE.GENRES SET DEFINE OFF; REM INSERTING into MOVIESGALORE.MOVIE SET DEFINE OFF: REM INSERTING into MOVIESGALORE.MOVIE\_GENRES SET DEFINE OFF; REM INSERTING into MOVIESGALORE.PLAYLIST SET DEFINE OFF: REM INSERTING into MOVIESGALORE.RATING SET DEFINE OFF; REM INSERTING into MOVIESGALORE.ROLE SET DEFINE OFF: REM INSERTING into MOVIESGALORE.SUBSCRIBE SET DEFINE OFF; REM INSERTING into MOVIESGALORE.USERS SET DEFINE OFF: -- DDL for Index PLAYLIST\_PK CREATE UNIQUE INDEX "MOVIESGALORE". "PLAYLIST\_PK" ON "MOVIESGALORE"."PLAYLIST" ("PLAYLISTID") PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT FLASH CACHE DEFAULT CELL FLASH CACHE DEFAULT) TABLESPACE "SYSTEM":

CREATE UNIQUE INDEX "MOVIESGALORE"."ROLE\_PK" ON "MOVIESGALORE"."ROLE" ("ROLEID")

-- DDL for Index ROLE PK

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT) TABLESPACE "SYSTEM";
DDL for Index RATING_PK
CREATE UNIQUE INDEX "MOVIESGALORE"."RATING_PK" ON "MOVIESGALORE"."RATING" ("RATINGID") PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT) TABLESPACE "SYSTEM";
DDL for Index MOVIE_PK
CREATE UNIQUE INDEX "MOVIESGALORE"."MOVIE_PK" ON "MOVIESGALORE"."MOVIE ("MOVIEID") PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT) TABLESPACE "SYSTEM";
DDL for Index GENRE_PK
CREATE UNIQUE INDEX "MOVIESGALORE"."GENRE_PK" ON "MOVIESGALORE"."GENRES" ("GENREID") PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT) TABLESPACE "SYSTEM";
CREATE UNIQUE INDEX "MOVIESGALORE"."USERS_PK" ON "MOVIESGALORE"."USERS" ("USERID")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT) TABLESPACE "SYSTEM": -- DDL for Index SUBSCRIBE\_PK CREATE UNIQUE INDEX "MOVIESGALORE". "SUBSCRIBE PK" ON "MOVIESGALORE"."SUBSCRIBE" ("SUBSCRIBEID") PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT) TABLESPACE "SYSTEM"; -- DDL for Index DIRECTOR\_PK CREATE UNIQUE INDEX "MOVIESGALORE". "DIRECTOR PK" ON "MOVIESGALORE"."DIRECTOR" ("DIRECTORID") PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT) TABLESPACE "SYSTEM"; -- DDL for Index ACTOR\_PK CREATE UNIQUE INDEX "MOVIESGALORE". "ACTOR PK" ON "MOVIESGALORE"."ACTOR" ("ACTORID") PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT

--- DDL for Trigger RATING\_TRG

TABLESPACE "SYSTEM";

CREATE OR REPLACE TRIGGER "MOVIESGALORE". "RATING\_TRG" BEFORE INSERT ON RATING

FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

```
FOR EACH ROW
BEGIN
<<COLUMN_SEQUENCES>>
BEGIN
     IF INSERTING AND :NEW.RATINGID IS NULL THEN
     SELECT RATING_SEQ.NEXTVAL INTO :NEW.RATINGID FROM SYS.DUAL;
     END IF:
END COLUMN SEQUENCES;
END:
ALTER TRIGGER "MOVIESGALORE". "RATING TRG" ENABLE;

    Constraints for Table SUBSCRIBE

ALTER TABLE "MOVIESGALORE". "SUBSCRIBE" MODIFY ("SUBSCRIBEID" NOT NULL
ENABLE):
ALTER TABLE "MOVIESGALORE". "SUBSCRIBE" MODIFY ("USERID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE". "SUBSCRIBE" MODIFY ("PLAYLISTID" NOT NULL
ENABLE);
ALTER TABLE "MOVIESGALORE". "SUBSCRIBE" ADD CONSTRAINT "SUBSCRIBE PK"
PRIMARY KEY ("SUBSCRIBEID")
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT
FLASH CACHE DEFAULT CELL FLASH CACHE DEFAULT)
TABLESPACE "SYSTEM" ENABLE;
ALTER TABLE "MOVIESGALORE". "SUBSCRIBE" MODIFY ("TIMESTAMP" NOT NULL
ENABLE):

    Constraints for Table GENRES

ALTER TABLE "MOVIESGALORE". "GENRES" MODIFY ("GENREID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE". "GENRES" ADD CONSTRAINT "GENRE PK" PRIMARY
KEY ("GENREID")
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER POOL DEFAULT
FLASH CACHE DEFAULT CELL FLASH CACHE DEFAULT)
TABLESPACE "SYSTEM" ENABLE;
```

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ALTER TABLE "MOVIESGALORE"."MOVIE" MODIFY ("MOVIEID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE"."MOVIE" ADD CONSTRAINT "MOVIE\_PK" PRIMARY
KEY ("MOVIEID")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "SYSTEM" ENABLE;

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-- Constraints for Table ROLE

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ALTER TABLE "MOVIESGALORE"."ROLE" MODIFY ("ROLEID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE"."ROLE" MODIFY ("ACTORID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE"."ROLE" MODIFY ("MOVIEID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE"."ROLE" ADD CONSTRAINT "ROLE\_PK" PRIMARY KEY ("ROLEID")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)
TABLESPACE "SYSTEM" ENABLE;

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-- Constraints for Table USERS

\_\_\_\_\_

ALTER TABLE "MOVIESGALORE"."USERS" MODIFY ("USERID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE"."USERS" ADD CONSTRAINT "USERS\_PK" PRIMARY
KEY ("USERID")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "SYSTEM" ENABLE;

\_\_\_\_\_

-- Constraints for Table DIRECTOR

\_\_\_\_\_

ALTER TABLE "MOVIESGALORE". "DIRECTOR" MODIFY ("DIRECTORID" NOT NULL ENABLE);

ALTER TABLE "MOVIESGALORE"."DIRECTOR" MODIFY ("MOVIEID" NOT NULL ENABLE); ALTER TABLE "MOVIESGALORE"."DIRECTOR" ADD CONSTRAINT "DIRECTOR\_PK" PRIMARY KEY ("DIRECTORID")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "SYSTEM" ENABLE;

.....

-- Constraints for Table RATING

\_\_\_\_\_

ALTER TABLE "MOVIESGALORE"."RATING" MODIFY ("MOVIEID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE"."RATING" MODIFY ("USERID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE"."RATING" MODIFY ("RATING" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE"."RATING" MODIFY ("RATINGID" NOT NULL ENABLE);
ALTER TABLE "MOVIESGALORE"."RATING" ADD CONSTRAINT "RATING\_CHK1" CHECK (rating in ('1', '2', '3', '4', '5')) ENABLE;

ALTER TABLE "MOVIESGALORE". "RATING" ADD CONSTRAINT "RATING\_PK" PRIMARY KEY ("RATINGID")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "SYSTEM" ENABLE;

-- Constraints for Table MOVIE\_GENRES

\_\_\_\_\_

ALTER TABLE "MOVIESGALORE"."MOVIE\_GENRES" MODIFY ("GENREID" NOT NULL ENABLE);

ALTER TABLE "MOVIESGALORE"."MOVIE\_GENRES" MODIFY ("MOVIEID" NOT NULL ENABLE);

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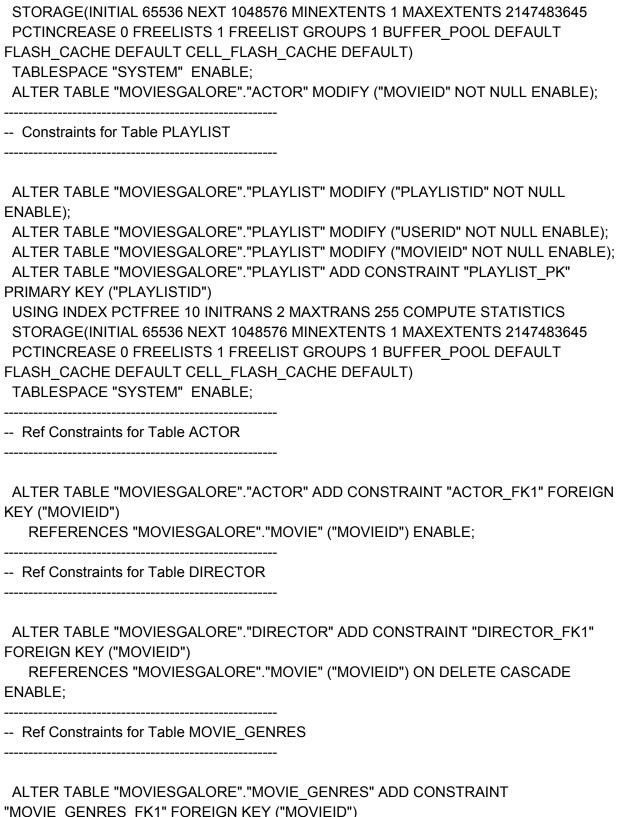
-- Constraints for Table ACTOR

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ALTER TABLE "MOVIESGALORE"."ACTOR" MODIFY ("ACTORID" NOT NULL ENABLE); ALTER TABLE "MOVIESGALORE"."ACTOR" ADD CONSTRAINT "ACTOR\_CHK1" CHECK (gender in ('m', 'f')) ENABLE;

ALTER TABLE "MOVIESGALORE"."ACTOR" ADD CONSTRAINT "ACTOR\_PK" PRIMARY KEY ("ACTORID")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS



"MOVIE\_GENRES\_FK1" FOREIGN KEY ("MOVIEID")

REFERENCES "MOVIESGALORE"."MOVIE" ("MOVIEID") ON DELETE CASCADE ENABLE;

ALTER TABLE "MOVIESGALORE". "MOVIE GENRES" ADD CONSTRAINT "MOVIE\_GENRES\_FK2" FOREIGN KEY ("GENREID") REFERENCES "MOVIESGALORE". "GENRES" ("GENREID") ON DELETE CASCADE ENABLE: -- Ref Constraints for Table PLAYLIST ALTER TABLE "MOVIESGALORE". "PLAYLIST" ADD CONSTRAINT "PLAYLIST FK1" FOREIGN KEY ("USERID") REFERENCES "MOVIESGALORE". "USERS" ("USERID") ON DELETE CASCADE **ENABLE:** ALTER TABLE "MOVIESGALORE". "PLAYLIST" ADD CONSTRAINT "PLAYLIST\_FK2" FOREIGN KEY ("MOVIEID") REFERENCES "MOVIESGALORE". "MOVIE" ("MOVIEID") ON DELETE CASCADE **ENABLE:** -- Ref Constraints for Table RATING ALTER TABLE "MOVIESGALORE". "RATING" ADD CONSTRAINT "RATING\_FK1" FOREIGN KEY ("MOVIEID") REFERENCES "MOVIESGALORE". "MOVIE" ("MOVIEID") ON DELETE CASCADE **ENABLE**; -- Ref Constraints for Table ROLE ALTER TABLE "MOVIESGALORE". "ROLE" ADD CONSTRAINT "ROLE\_FK1" FOREIGN KEY ("MOVIEID") REFERENCES "MOVIESGALORE". "MOVIE" ("MOVIEID") ON DELETE CASCADE ALTER TABLE "MOVIESGALORE". "ROLE" ADD CONSTRAINT "ROLE\_FK2" FOREIGN KEY ("ACTORID") REFERENCES "MOVIESGALORE"."ACTOR" ("ACTORID") ENABLE; -- Ref Constraints for Table SUBSCRIBE ALTER TABLE "MOVIESGALORE". "SUBSCRIBE" ADD CONSTRAINT "SUBSCRIBE FK1" FOREIGN KEY ("USERID") REFERENCES "MOVIESGALORE". "USERS" ("USERID") ENABLE;

Ref Constraints for Table USERS
ALTER TABLE "MOVIESGALORE"."USERS" ADD CONSTRAINT "USERS_FK1" FOREIGN KEY ("MOVIEID") REFERENCES "MOVIESGALORE"."MOVIE" ("MOVIEID") ENABLE;
CREATE VIEW USER_SUBSCRIPTIONS AS SELECT USERS.USERID,SUBSCRIBE.SUBSCRIBEID FROM SUBSCRIBE,USERS WHERE USERS.USERID=SUBSCRIBE.SUBSCRIBEID GROUP BY USERS.USERID;
CREATE VIEW ACTOR_MOVIES AS SELECT MOVIE.MOVIEID, MOVIE.TITLE, ACTOR.FNAME, ACTOR.LNAME FROM MOVIE,ACTOR WHERE MOVIE.MOVIEID=ACTOR.MOVIEID GROUP BY MOVIE.TITLE;
BEGIN ASSERTIONS

```
Create ASSERTION CHECKRATING CHECK(
NOT EXISTS(
     SELECT * FROM RATING
     WHERE RATING <= 5)
);
-- Makes sure USERNAME is never null
Create ASSERTION CHECKUSERNAME AS CHECK(
NOT EXISTS(
     SELECT * FROM USERS
     WHERE USERNAME IS NULL)
);
-- END ASSERTIONS
-- Begin Group Having Clauses
-- Will display all movie titles uploaded by users
_____
SELECT MOVIE.MOVIEID, COUNT(*) AS TOTAL_MOVIES FROM MOVIES, USER
WHERE MOVIE.MOVIEID = USER.MOVIEID
GROUP BY
     MOVIE.MOVIEID, MOVIE.TITLE
     HAVING COUNT(*) >=1;
-- Will display all created playlists by users
SELECT PLAYLIST.ID, COUNT(*) AS TOTAL_PLAYLIST FROM PLAYLIST, USER
WHERE PLAYLIST.PLAYLISTID = USER.USERID
GROUP BY
     PLAYLIST.PLAYLISTID, PLAYLIST.PLAYLISTNAME
     HAVING COUNT(*) >=1;
```

End HAVING CLAUSES
Begin JOIN CLAUSES
Will display Movie Titles greater than 4.
 SELECT MOVIE.TITLE, RATING.USERID, RATING.RATING FROM(
MOVIE LEFT OUTER JOIN RATING ON MOVIE.MOVIEID = RATING.MOVIEID AND RATING.RATINGID > 4);
SELECT DIRECTOR.ID MOVIE.TITLE, MOVIE.RELEASE, FROM(
DIRECTOR LEFT OUTER JOIN MOVIE
ON DIRECTOR.MOVIEID = MOVIE.MOVIEID  AND DIRECTOR.FNAME = 'George'
AND DIRECTOR.LNAME = 'Lucas' );
End JOIN CLAUSES
Start Queries
Start Select Queries
SELECT * FROM MOVIE;
get all subscription dates from users between January 1, 2016 and December 31 1026

('2016/01/01', 'yyyy/mm/dd') AND TO_DATE ('2016/12/31', 'yyyy/mm/dd');
get first user who registered
SELECT * FROM (SELECT * FROM USER ORDER BY USER.USERID) WHERE ROWNUM = 1;
MOVIEID
Get Name of a director based off of ID
SELECT TRIM(TRIM(FNAME    ' '    LNAME)) FROM DIRECTOR WHERE DIRECTORID='2';
SELECT MOVIEID , TITLE , MINUTES FROM MOVIE WHERE RELEASEDATE BETWEEN 2000 AND 2017;
SELECT COUNT(ACTORID) FROM ACTOR;
SELECT TITLE FROM MOVIE WHERE TITLE NOT LIKE 'The Movie';
Begin INSERT,UPDATE,DELETE
INSERT INTO MOVIEGALOR.MOVIE (MOVIEID, MOVIETITLE, RELEASEDATE, MINUTES) VALUES (1, 'Minions', 2012, 107), (2, 'Minions 2', 2014, 112),

```
(3, 'Minions 3', 2017, 83),
 (4, 'Transformers', 2011, 200),
 (5, 'Harry Potter and The Sorcerors Stone', 2008, 110),
 (6, 'Star Wars III', 2006, 90),
 (7, 'Hackerman', 2001, 69),
 (8, 'Pirates of Sillicon Valley', 1983, 140),
 (9, 'The Social Network', 2010, 130),
 (10, 'Dragon Ball Z: The Movie', 2008, 107),
 (11, 'Captain Underpants', 2017, 88);
 (12, 'Inception', 2010, 80);
INSERT INTO MOVIESGALORE.PLAYLIST (PLAYLISTID, PLAYLISTNAME, USERID,
MOVIEID)
VALUES
 (1, 'OLDPLAYLISTNAME', 1, 12),
 (2, 'OLDPLAYLISTNAME', 2, 17),
 (3, 'OLDPLAYLISTNAME', 3, 1),
 (4, 'OLDPLAYLISTNAME', 4, 7),
 (5, 'OLDPLAYLISTNAME', 5, 24),
 (6, 'OLDPLAYLISTNAME', 6, 13);
INSERT INTO MOVIESGALORE. USERS (USERID, USERNAME, FNAME, LNAME, EMAIL,
PASSWORD, MOVIEID)
VALUES
 (1, 'CutieWithTheMovies', 'Marcia', 'Smith', 'moviecutie@gmail.com', 'password123', 1),
 (2, 'AwesomeMovieDude', 'Dude', 'Perfect', 'Perfect2017ThatDude@aol.com', 'password123',
2),
 (401, 'Jason21', 'Jason', 'Smith', 'Jason. Smith@yahoo.com', '123321ASa', 1),
 (402,'Ryan1993','Ryan','Johnson','Ryan.Johnston@gmail.com','424123ASs21',2),
 (403, 'Kitkat909', 'Chris', 'Alborg', 'Chris1991@hotmail.com', '4123ASa', 3),
 (404, 'Cheeseballs 100', 'Sarah', 'Jones', 'Jones SS@gmail.com', '124124AA24', 4),
 (405, 'RollerToasterX', 'Megan', 'Cantalope', 'Cantalope434@gmail.com', '123asdAA', 5),
 (406, 'Tacoshimi29', 'Edd', 'Alvarez', 'Alvarez. Edd@yahoo.com', '12AGSa21',6),
 (407, 'JunkieAce', 'Elias', 'Rader', 'RadEli@hotmail.com', 'AASD121@',7),
 (408, 'Mousepadman96', 'Jenny', 'Kingston', 'Jennytoomany@gmail.com', 'asdfAS21',8),
 (409, 'PuppyMan', 'Michael', 'Owen', 'OwneTheone@hotmail.com', '121ASAG', 9),
 (410, 'CaptainBroclli', 'Liam', 'McNelson', 'McnelsonLL@yahoo.com', '65GDF12aa', 10);
INSERT INTO MOVIESGALORE.ACTOR (ACTORID, FNAME, LNAME, GENDER, MOVIEID)
VALUES
 (9, 'Jesse', 'Esienberg', 'M', 9),
 (001, 'Sandra', 'Bullock', 'F', 1),
 (002, 'John', 'Hamm', 'M',
                            2),
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(003,'Michael','Keaton','M', 3),
 (004,'Andrew','Garfield','M', 4),
 (005, 'Rooney', 'Mara', 'Female', 5),
 (006, 'Daniel', 'Radcliffe', 'M', 6),
 (007, 'Shaia', 'LaBeouf', 'M',
                            7),
 (008,'Josh','Duhamel','M',
                             8),
 (010,'Megan','Fox','F',
                             10),
INSERT INTO MOVIESGALORE.GENRES (GENREID, GENRE)
VALUES
 (1, 'Comedy'),
 (2, 'Horror'),
 (202, 'Action'),
 (203, 'Thriller'),
 (204,'Adventure'),
 (205, 'Romance'),
 (206, 'Drama'),
 (207, 'Animation'),
 (208, 'Fantasy'),
 (209, 'Fiction'),
 (210,'Documentary');
INSERT INTO MOVIESGALORE.MOVIE_GENRES (GENREID, MOVIEID)
VALUES
 (1, 1,),
 (201,1),
 (202,2),
 (203,3),
 (204,4),
 (205,5),
 (206,6),
 (207,7),
 (208,8),
 (209,9),
 (2010,10);
INSERT INTO MOVIESGALORE.ROLE(ROLEID, CHARACTERNAME, ACTORID, MOVIEID)
VALUES
 (9, 'Mark Zuckerbeg', 9, 9),
 (101, 'Scarlet Overkill', 001, 1),
 (102, 'Herb Overkill', 002, 2),
 (103, 'Madge Nelson', 003, 3),
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(104, 'The Queen', 004, 4),
 (105, 'Hagrid', 005, 5),
 (106, 'Uncle Dursley', 006, 6),
 (107, 'Captain Lennox', 007, 7),
 (108, 'Agent Simmons', 008, 8,),
 (109, 'Nikon', 009, 9),
 (110, 'Razor', 010, 10);
INSERT INTO MOVIESGALORE.DIRECTOR (DIRECTORID, FNAME, LNAME, MOVIEID)
VALUES
 (1, 'George','Lucas', 6),
 (301, 'lain', 'Sofley',
                      1),
 (302, 'Kyle', 'Balda',
                      2),
 (303, 'Sam', 'Raimi',
 (304, 'Roman', 'Polanski', 4),
 (305, 'Ridley', 'Scott', 5),
 (306, 'Robert', 'Zemeckis', 6),
 (307, 'James', 'Cameron', 7),
 (308, 'Mike', 'Nichols', 8),
 (309, 'Francis', 'Copola', 9),
 (310,'Mel','Brooks', 10);
INSERT INTO MOVIESGALORE.RATING (MOVIEID, USERID, RATING, RATINGID)
VALUES
 (1, 1, 'Excellent', 5),
 (1, 401, 'Very Good', 4),
 (2, 402, 'Excellent', 5),
 (3, 403, 'Good', 3),
 (4, 404, 'Poor', 1),
 (5, 405, 'Very Good', 4),
 (6, 406, 'Very Good', 4),
 (7, 407, 'Excellent', 5),
 (8, 408, 'Good', 3),
 (9, 409, 'Poor', 1),
 (10,410,'Okay', 2);
INSERT INTO MOVIESGALORE.SUBSCRIBE (SUBSCRIBEID, TIMSTAMP, USERID,
RATINGID)
VALUES
(801, '2009-05-18 15:16:51', 401,5),
(802, '2009-05-18 14:14:41', 402,3),
(803, '2009-05-18 23:18:11', 403,3),
(804, '2009-05-18 15:54:45', 404,4),
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