**Back-end Description:**

**All Tables with constraints:**

Movie(movie\_id, name, release\_date, actor, actress)

Language(movie\_id, language)

Crew(crew\_id, director\_name, producer\_comp, movie\_id)

Producer(crew\_id, producer)

Revenue(revenue\_id, total\_budget, collection, actor\_remun, actress\_remun, movie\_id)

Ratings(rating\_id, imdb, radio\_mirchi, critic, movie\_id)

Availability(available\_id, streaming\_in, genre, movie\_id)

Cast(actor, actress, supporting\_role, villan, movie\_id)

Romance(m\_id, name, movie\_id)

Action(m\_id, name, movie\_id)

Comedy(m\_id, name, movie\_id)

**Primary Key Constraint:**

Mid\_pk

Language\_pk

Crew\_pk

Producer\_pk

Revenue\_pk

Rating\_pk

Available\_pk

Act\_pk

Rom\_pk

Com\_pk

**Foreign Key Constraint:**

Language\_fk

Crew\_fk

Producer\_fk

Revenue\_fk

Rating\_fk

Available\_fk

Cast\_fk

Action\_fk

Romance\_fk

Comedy\_fk

**Creating All Tables with primary and foreign key constraints:**

**Table Movie:**

SQL> create table movie(

2 movie\_id number not null constraint mid\_pk PRIMARY KEY,

3 name varchar(30) not null,

4 release\_date timestamp not null,

5 actor varchar(30) not null,

6 actress varchar(30) not null );

Table created.

SQL> desc movie;

Name Null? Type

----------------------------------------- -------- ----------------------------

MOVIE\_ID NOT NULL NUMBER

NAME NOT NULL VARCHAR2(30)

RELEASE\_DATE NOT NULL TIMESTAMP(6)

ACTOR NOT NULL VARCHAR2(30)

ACTRESS NOT NULL VARCHAR2(30)

-----------------------------------------------------------------------------------------------------------------------------------

**Table Language:**

SQL> create table language(

2 movie\_id constraint language\_fk references movie,

3 language varchar(20) not null,

4 constraint language\_pk PRIMARY KEY(movie\_id, language)

5 );

Table created.

SQL> desc language;

Name Null? Type

----------------------------------------- -------- ----------------------------

MOVIE\_ID NOT NULL NUMBER

LANGUAGE NOT NULL VARCHAR2(20)

-------------------------------------------------------------------------------------------------------------------------------------

**Table Crew:**

SQL> create table crew(

2 crew\_id number not null constraint crew\_pk PRIMARY KEY,

3 director\_name varchar(30) not null,

4 producer\_comp varchar(30) not null,

5 movie\_id constraint crew\_fk references movie );

Table created.

SQL> desc crew;

Name Null? Type

----------------------------------------- -------- ----------------------------

CREW\_ID NOT NULL NUMBER

DIRECTOR\_NAME NOT NULL VARCHAR2(30)

PRODUCER\_COMP NOT NULL VARCHAR2(30)

MOVIE\_ID NUMBER

--------------------------------------------------------------------------------------------------------------------------------------

**Table Producer:**

SQL> create table producer(

2 crew\_id constraint producer\_fk references crew,

3 producer varchar(30) not null,

4 constraint producer\_pk PRIMARY KEY(crew\_id, producer)

5 );

Table created.

SQL> desc producer;

Name Null? Type

----------------------------------------- -------- ----------------------------

CREW\_ID NOT NULL NUMBER

PRODUCER NOT NULL VARCHAR2(30)

--------------------------------------------------------------------------------------------------------------------------------------

**Table Revenue:**

SQL> create table revenue(

2 revenue\_id number constraint revenue\_pk PRIMARY KEY,

3 total\_budget varchar(20) not null,

4 collection varchar(20) not null,

5 actor\_remun varchar(20) not null,

6 actress\_remun varchar(20) not null,

7 movie\_id constraint revenue\_fk references movie

8 );

Table created.

SQL> desc revenue;

Name Null? Type

----------------------------------------- -------- ----------------------------

REVENUE\_ID NOT NULL NUMBER

TOTAL\_BUDGET NOT NULL VARCHAR2(20)

COLLECTION NOT NULL VARCHAR2(20)

ACTOR\_REMUN NOT NULL VARCHAR2(20)

ACTRESS\_REMUN NOT NULL VARCHAR2(20)

MOVIE\_ID NUMBER

--------------------------------------------------------------------------------------------------------------------------------------

**Table Ratings:**

SQL> create table ratings(

2 rating\_id number not null constraint rating\_pk PRIMARY KEY,

3 imdb varchar(20) not null,

4 radio\_mirchi varchar(20) not null,

5 critic varchar(20) not null,

6 movie\_id constraint rating\_fk references movie

7 );

Table created.

SQL> desc ratings;

Name Null? Type

----------------------------------------- -------- ----------------------------

RATING\_ID NOT NULL NUMBER

IMDB NOT NULL VARCHAR2(20)

RADIO\_MIRCHI NOT NULL VARCHAR2(20)

CRITIC NOT NULL VARCHAR2(20)

MOVIE\_ID NUMBER

--------------------------------------------------------------------------------------------------------------------------------------

**Table Availability:**

SQL> create table availability(

2 available\_id number not null constraint available\_pk PRIMARY KEY,

3 streaming\_in varchar(25) not null,

4 genre varchar(25) not null,

5 movie\_id constraint available\_fk references movie

6 );

Table created.

SQL> desc availability;

Name Null? Type

----------------------------------------- -------- ----------------------------

AVAILABLE\_ID NOT NULL NUMBER

STREAMING\_IN NOT NULL VARCHAR2(25)

GENRE NOT NULL VARCHAR2(25)

MOVIE\_ID NUMBER

--------------------------------------------------------------------------------------------------------------------------------------

**Table Cast:**

SQL> create table cast(

2 actor varchar(25) not null,

3 actress varchar(25) not null,

4 supporting\_role varchar(25) not null,

5 villan varchar(25) not null,

6 movie\_id constraint cast\_fk references movie

7 );

Table created.

SQL> desc cast;

Name Null? Type

----------------------------------------- -------- ----------------------------

ACTOR NOT NULL VARCHAR2(25)

ACTRESS NOT NULL VARCHAR2(25)

SUPPORTING\_ROLE NOT NULL VARCHAR2(25)

VILLAN NOT NULL VARCHAR2(25)

MOVIE\_ID NUMBER

--------------------------------------------------------------------------------------------------------------------------------------

**Table Action:**

SQL> create table action(

2 m\_id number not null constraint act\_pk PRIMARY KEY,

3 name varchar(30) not null,

4 movie\_id constraint action\_fk references movie

5 );

Table created.

SQL> desc action;

Name Null? Type

----------------------------------------- -------- ----------------------------

M\_ID NOT NULL NUMBER

NAME NOT NULL VARCHAR2(30)

MOVIE\_ID NUMBER

--------------------------------------------------------------------------------------------------------------------------------------

**Table Romance:**

SQL> create table romance(

2 m\_id number not null constraint rom\_pk PRIMARY KEY,

3 name varchar(30) not null,

4 movie\_id constraint romance\_fk references movie

5 );

Table created.

SQL> desc romance;

Name Null? Type

----------------------------------------- -------- ----------------------------

M\_ID NOT NULL NUMBER

NAME NOT NULL VARCHAR2(30)

MOVIE\_ID NUMBER

--------------------------------------------------------------------------------------------------------------------------------------

**Table Comedy:**

SQL> create table comedy(

2 m\_id number not null constraint com\_pk PRIMARY KEY,

3 name varchar(30) not null,

4 movie\_id constraint comedy\_fk references movie

5 );

Table created.

SQL> desc comedy;

Name Null? Type

----------------------------------------- -------- ----------------------------

M\_ID NOT NULL NUMBER

NAME NOT NULL VARCHAR2(30)

MOVIE\_ID NUMBER