DATA DEFINITION LANGUAGE

- All our tables have foreign keys in referencing tables so we don't have *insertion anomalies*.
- All our tables have cascade update/delete and restrict constrains, making our database *update/delete anomaly* free too.

State Table:

```
CREATE TABLE STATE_TBL(

STATE_ID SMALLINT PRIMARY KEY,

STATE_NAME VARCHAR(20) NOT NULL
);
```

City Table:

```
CREATE TABLE CITY_TBL(

CITY_ID INT PRIMARY KEY,

CITY_NAME VARCHAR(20) NOT NULL,

SID SMALLINT NOT NULL REFERENCES STATE_TBL(STATE_ID) ON DELETE RESTRICT ON UPDATE CASCADE

);
```

Theatre Table:

```
CREATE TABLE THEATRE_TBL(

THEATRE_ID INT PRIMARY KEY,

THEATRE_NAME VARCHAR(50) NOT NULL,

ADDRESS_LINE1 VARCHAR(200),

ADDRESS_LINE2 VARCHAR(200),
```

```
PINCODE INT NOT NULL CHECK(PINCODE between 100000 AND 999999),
      CID INT NOT NULL REFERENCES CITY_TBL(CITY_ID) ON DELETE RESTRICT ON UPDATE CASCADE
);
Screen Table:
CREATE TABLE SCREEN_TBL(
      SCREEN_NO INT PRIMARY KEY,
      SCREEN_NAME VARCHAR(4) NOT NULL,
      TID INT NOT NULL REFERENCES THEATRE_TBL(THEATRE_ID) ON DELETE RESTRICT
      ON UPDATE CASCADE
);
Genre Table:
CREATE TABLE GENRE_TBL(
      GENRE_NAME VARCHAR(20) PRIMARY KEY
);
Movie Table:
CREATE TABLE MOVIE_TBL(
      MOVIE_ID INT PRIMARY KEY,
      MOVIE_NAME VARCHAR(50) NOT NULL,
      RELEASE_DATE DATE NOT NULL,-- CHECK(RELEASE_DATE>=CURRENT_DATE),
      DESCRIPTION VARCHAR(500),
```

```
MOVIE_LANGUAGE VARCHAR(30) NOT NULL,

RATING DECIMAL(3,1) CHECK(RATING>=1 AND RATING<=10),

UNIQUE(MOVIE_NAME,RELEASE_DATE)

);
```

Movie Genre Table:

```
CREATE TABLE MOVIE_GENRE_TBL(
```

GNAME VARCHAR(20) REFERENCES GENRE_TBL(GENRE_NAME)ON DELETE RESTRICT ON UPDATE CASCADE,

MID INT REFERENCES MOVIE_TBL(MOVIE_ID) ON DELETE RESTRICT ON UPDATE CASCADE,

PRIMARY KEY(GNAME,MID)

Show Table:

);

```
CREATE TABLE SHOW_TBL(
```

SHOW_ID INT PRIMARY KEY,

SNO INT NOT NULL REFERENCES SCREEN_TBL(SCREEN_NO) ON DELETE RESTRICT ON UPDATE CASCADE,

MID INT NOT NULL REFERENCES MOVIE_TBL(MOVIE_ID) ON DELETE RESTRICT ON UPDATE CASCADE,

DATETIME TIMESTAMP NOT NULL,-- CHECK (DATETIME > CURRENT_TIMESTAMP),

UNIQUE(SNO,MID,DATETIME)

);

Seat Table:

```
CREATE TABLE SEAT_TBL(

SEAT_NO INT PRIMARY KEY,

SEAT_NAME VARCHAR(3) NOT NULL,

SNO INT NOT NULL REFERENCES SCREEN_TBL(SCREEN_NO) ON DELETE RESTRICT ON UPDATE CASCADE,

SEAT_CATEGORY VARCHAR(8) NOT NULL CHECK(SEAT_CATEGORY IN ('SILVER','GOLD','PLATINUM')),

UNIQUE(SEAT_NAME,SNO)

);
```

Customer Table:

```
CREATE TABLE CUSTOMER_TBL(

CONTACT_NO BIGINT PRIMARY KEY CHECK(CONTACT_NO BETWEEN 1000000000 AND 999999999),

CUSTOMER_NAME VARCHAR(30) NOT NULL,

EMAIL VARCHAR(50)

);
```

Ticket Table:

```
CREATE TABLE TICKET_TBL(

TICKET_NO INT PRIMARY KEY,

PRICE Decimal(6,2) NOT NULL,

SNO INT NOT NULL REFERENCES SEAT_TBL(SEAT_NO) ON DELETE RESTRICT ON UPDATE CASCADE,

SID INT NOT NULL REFERENCES SHOW_TBL(SHOW_ID) ON DELETE RESTRICT ON UPDATE CASCADE,

UNIQUE(SNO,SID)
```

```
);
Payment Table:
CREATE TABLE PAYMENT TBL(
      PAYMENT_ID INT PRIMARY KEY,
      AMOUNT DECIMAL(8,2) NOT NULL,
      PAYMENT_MODE BOOLEAN
);
Booked (tickets) Table:
CREATE TABLE BOOKED_TBL(
      BOOKING_ID INT PRIMARY KEY,
      CNO BIGINT NOT NULL REFERENCES CUSTOMER TBL(CONTACT NO) ON DELETE RESTRICT ON
      UPDATE CASCADE,
      PID INT NOT NULL REFERENCES PAYMENT_TBL(PAYMENT_ID) ON DELETE RESTRICT ON UPDATE
      CASCADE,
      TNO INT NOT NULL REFERENCES TICKET_TBL(TICKET_NO) ON DELETE RESTRICT ON UPDATE
      CASCADE,
      BOOKING_TIME TIMESTAMP,
      UNIQUE(CNO,PID,TNO)
);
Review Table:
```

CREATE TABLE REVIEW(

REVIEW_ID INT PRIMARY KEY,

CNO BIGINT NOT NULL REFERENCES CUSTOMER_TBL(CONTACT_NO) ON DELETE RESTRICT ON UPDATE CASCADE,

MID INT NOT NULL REFERENCES MOVIE_TBL(MOVIE_ID) ON DELETE RESTRICT ON UPDATE CASCADE,

RATING DECIMAL(2,1) NOT NULL CHECK(RATING>=1 AND RATING<=10),

```
REVIEW_COMMENT VARCHAR(1000) NOT NULL,
UNIQUE(CNO,MID)
```

);