```sql
CREATE TABLE game_details (
            game_det_id VARCHAR2(6) NOT NULL,
            no_of_players VARCHAR2(10) NOT NULL,
            age_restriction VARCHAR2(10) NOT NULL,
            game_type VARCHAR2(10) NOT NULL,
            CONSTRAINT GAME_DET_PK PRIMARY KEY (game_det_id)
);


CREATE TABLE supplier (
            supplier_id VARCHAR2(11) NOT NULL,
            supplier_name VARCHAR2(15) NOT NULL,
            supplier_type VARCHAR2(27) NOT NULL,
            CONSTRAINT SUPPLIER_PK PRIMARY KEY (supplier_id)
);


CREATE TABLE spectator (
            spectator_id VARCHAR2(20) NOT NULL,
            spectator_name VARCHAR2(20) NOT NULL,
            spectator_age VARCHAR2(10) NOT NULL,
            gender VARCHAR2(11) NOT NULL,
            contact_details VARCHAR2(15) NOT NULL,
            CONSTRAINT SPECTATOR_PK PRIMARY KEY (spectator_id)
);


CREATE TABLE game (
            game_id VARCHAR2(6) NOT NULL,
            game_name VARCHAR2(10) NOT NULL,
            game_time VARCHAR2(10) NOT NULL,
            description VARCHAR2(20) NOT NULL,
            supplier_id VARCHAR2(11) NOT NULL,
            game_det_id VARCHAR2(6) NOT NULL,
            CONSTRAINT GAME_PK PRIMARY KEY (game_id)
);


CREATE TABLE Location (
            location_id VARCHAR2(6) NOT NULL,
            street VARCHAR2(6) NOT NULL,
            pin_code VARCHAR2(6) NOT NULL,
            city VARCHAR2(10) NOT NULL,
            state VARCHAR2(11) NOT NULL,
            CONSTRAINT LOCATION_PK PRIMARY KEY (location_id)
);


CREATE TABLE datedt (
            date_id VARCHAR2(7) NOT NULL,
            day VARCHAR2(10) NOT NULL,
            month VARCHAR2(11) NOT NULL,
            year VARCHAR2(6) NOT NULL,
            CONSTRAINT DATEDT_ID PRIMARY KEY (date_id)
);


CREATE TABLE player (
            player_id VARCHAR2(10) NOT NULL,
            date_id VARCHAR2(7) NOT NULL,
            game_id VARCHAR2(6) NOT NULL,
            spectator_id VARCHAR2(20) NOT NULL,
            Location_id VARCHAR2(6) NOT NULL,
            count NUMBER(14) NOT NULL,
            amount_sld VARCHAR2(10) NOT NULL,
            CONSTRAINT PLAYER_PK PRIMARY KEY (player_id)
);
```

```sql
ALTER TABLE game ADD CONSTRAINT GAME_DETAILS_GAME_FK
FOREIGN KEY (game_det_id)
REFERENCES game_details (game_det_id)
NOT DEFERRABLE;

ALTER TABLE game ADD CONSTRAINT SUPPLIER_GAME_FK
FOREIGN KEY (supplier_id)
REFERENCES supplier (supplier_id)
NOT DEFERRABLE;

ALTER TABLE player ADD CONSTRAINT SPECTATOR_PLAYER_FK
FOREIGN KEY (spectator_id)
REFERENCES spectator (spectator_id)
NOT DEFERRABLE;

ALTER TABLE player ADD CONSTRAINT GAME_PLAYER_FK
FOREIGN KEY (game_id)
REFERENCES game (game_id)
NOT DEFERRABLE;

ALTER TABLE player ADD CONSTRAINT LOCATION_PLAYER_FK
FOREIGN KEY (Location_id)
REFERENCES Location (location_id)
NOT DEFERRABLE;

ALTER TABLE player ADD CONSTRAINT DATE_PLAYER_FK
FOREIGN KEY (date_id)
REFERENCES datedt (date_id)
NOT DEFERRABLE;
```

```sql
CREATE TABLE spectator (
            spectator_id VARCHAR2(20) NOT NULL,
            spectator_name VARCHAR2(20) NOT NULL,
            spectator_age VARCHAR2(10) NOT NULL,
            gender VARCHAR2(11) NOT NULL,
            contact_details VARCHAR2(15) NOT NULL,
            CONSTRAINT SPECTATOR_PK PRIMARY KEY (spectator_id)
);


CREATE TABLE game (
            game_id VARCHAR2(6) NOT NULL,
            game_name VARCHAR2(10) NOT NULL,
            game_time VARCHAR2(10) NOT NULL,
            description VARCHAR2(20) NOT NULL,
            CONSTRAINT GAME_PK PRIMARY KEY (game_id)
);


CREATE TABLE Location (
            location_id VARCHAR2(6) NOT NULL,
            street VARCHAR2(6) NOT NULL,
            pin_code VARCHAR2(6) NOT NULL,
            city VARCHAR2(10) NOT NULL,
            state VARCHAR2(11) NOT NULL,
            CONSTRAINT LOCATION_PK PRIMARY KEY (location_id)
);


CREATE TABLE datedt (
            date_id VARCHAR2(7) NOT NULL,
            day VARCHAR2(10) NOT NULL,
            month VARCHAR2(11) NOT NULL,
            year VARCHAR2(6) NOT NULL,
            CONSTRAINT DATE_ID PRIMARY KEY (date_id)
);


CREATE TABLE player (
            player_id VARCHAR2(10) NOT NULL,
            date_id VARCHAR2(7) NOT NULL,
            game_id VARCHAR2(6) NOT NULL,
            Location_id VARCHAR2(6) NOT NULL,
            spectator_id VARCHAR2(20) NOT NULL,
            count NUMBER(14) NOT NULL,
            amount_sld VARCHAR2(10) NOT NULL,
            CONSTRAINT PLAYER_PK PRIMARY KEY (player_id)
);


ALTER TABLE player ADD CONSTRAINT SPECTATOR_PLAYER_FK
FOREIGN KEY (spectator_id)
REFERENCES spectator (spectator_id)
NOT DEFERRABLE;

ALTER TABLE player ADD CONSTRAINT GAME_PLAYER_FK
FOREIGN KEY (game_id)
REFERENCES game (game_id)
NOT DEFERRABLE;

ALTER TABLE player ADD CONSTRAINT LOCATION_PLAYER_FK
FOREIGN KEY (Location_id)
REFERENCES Location (location_id)
NOT DEFERRABLE;

ALTER TABLE player ADD CONSTRAINT DATE_PLAYER_FK
FOREIGN KEY (date_id)
REFERENCES datedt (date_id)
```

```
70    NOT DEFERRABLE;
71
```

```sql
-- DATE dimension table
INSERT INTO  datedt VALUES ('T01',11,11,2017);
INSERT INTO  datedt VALUES ('T02',28,02,2017);
INSERT INTO  datedt VALUES ('T03',23,12,2019);

SELECT * FROM datedt;
/*
TIME_I          DAY         MONTH       YEAR
------      ----------  ----------  ----------
T01             11          11          2017
T02             28           2          2017
T03             23          12          2019
*/

-- GAME dimension table
INSERT INTO game VALUES('G01','Game1','25','SINGLE');
INSERT INTO game VALUES('G02','Game2','40','MULTIPLE');
INSERT INTO game VALUES('G03','Game3','30','SINGLE');
SELECT * FROM game;

/*
GAME_I GAME_NAME            GAME_TIME          DESCRIPTION
------ ------------------  ---------------  --------------------
G01     Game1                  25                SINGLE
G02     Game2                  40                MULTIPLE
G03     Game3                  30                SINGLE
*/

-- LOCATION dimension table

INSERT INTO location VALUES('L101','S101','123456','C101','MH');
INSERT INTO location VALUES('L102','S102','723432','C101','MH');
INSERT INTO location VALUES('L103','S103','235334','C102','MH');

SELECT * FROM location;

/*
LOCATI STREET CITY   PIN_CO    STATE
------ ------ ------ -------  -----------
L101   S101   C101   123456     MH
L102   S102   C101   723432     MH
L103   S103   C102   235334     MH
*/


-- SPECTATOR dimension table

INSERT INTO spectator VALUES('SP0','AAY','STUDENT',19);
INSERT INTO spectator VALUES('SP1','POO','SENIOR CITIZEN',20);

SELECT * FROM spectator;
/*
SPECTA SPEC_NAME   GENDER    SPEC_TYPE            SPEC_AGE
------ ----------- --------- -------------------- ----------
SP0    ABC         F         CHILD                        12
SP1    PQR         M         ADULT                        30
*/


-- PLAYER Fact table
INSERT INTO player VALUES('P101','T01','G01','L101','SP0',10,250);
INSERT INTO player VALUES('P102','T01','G02','L102','SP1',12,300);


SELECT * FROM player;
/*
PLAYER DATE_I GAME_I LOCATI SPECTA     COUNT  AMOUNT_S
------ ------ ------ ------ ------ ----------- --------
```

```
70    P101    T01      G01    L101    SP0          10   250
71    P102    T01      G02    L102    SP1          12   300
72
73    */
74
75    -- FOREGIN KEY DOES NOT EXISTS IN DIMMENSIONAL TABLE
76
77    INSERT INTO player VALUES('P103','T05','G02','L101','SP1',34,550);
78    /*
79    *
80    ERROR at line 1:
81    ORA-02291: integrity constraint (POONAM.DATEDT_PLAYER_FK)
82    violated - parent key not found
83    */
84
85
```

datedt

date_id: VARCHAR(7) NOT NULL [PK]

day: VARCHAR(10) NOT NULL
month: VARCHAR(11) NOT NULL
year: VARCHAR(6) NOT NULL

game

game_id: VARCHAR(6) NOT NULL [PK]

game_name: VARCHAR(10) NOT NULL
game_time: VARCHAR(10) NOT NULL
description: VARCHAR(20) NOT NULL
supplier_id: VARCHAR(11) NOT NULL [FK]
game_det_id: VARCHAR(6) NOT NULL [FK]

supplier

supplier_id: VARCHAR(11) NOT NULL [PK]

supplier_name: VARCHAR(15) NOT NULL
supplier_type: VARCHAR(27) NOT NULL

Player

player_id: VARCHAR(10) NOT NULL [PK]

date_id: VARCHAR(7) NOT NULL [FK]
game_id: VARCHAR(6) NOT NULL [FK]
spectator_id: VARCHAR(20) NOT NULL [FK]
Location_id: VARCHAR(6) NOT NULL [FK]
count: NUMERIC(14) NOT NULL
amount_sld: VARCHAR(10) NOT NULL

Location

location_id: VARCHAR(6) NOT NULL [PK]

street: VARCHAR(6) NOT NULL
pin_code: VARCHAR(6) NOT NULL
city: VARCHAR(10) NOT NULL
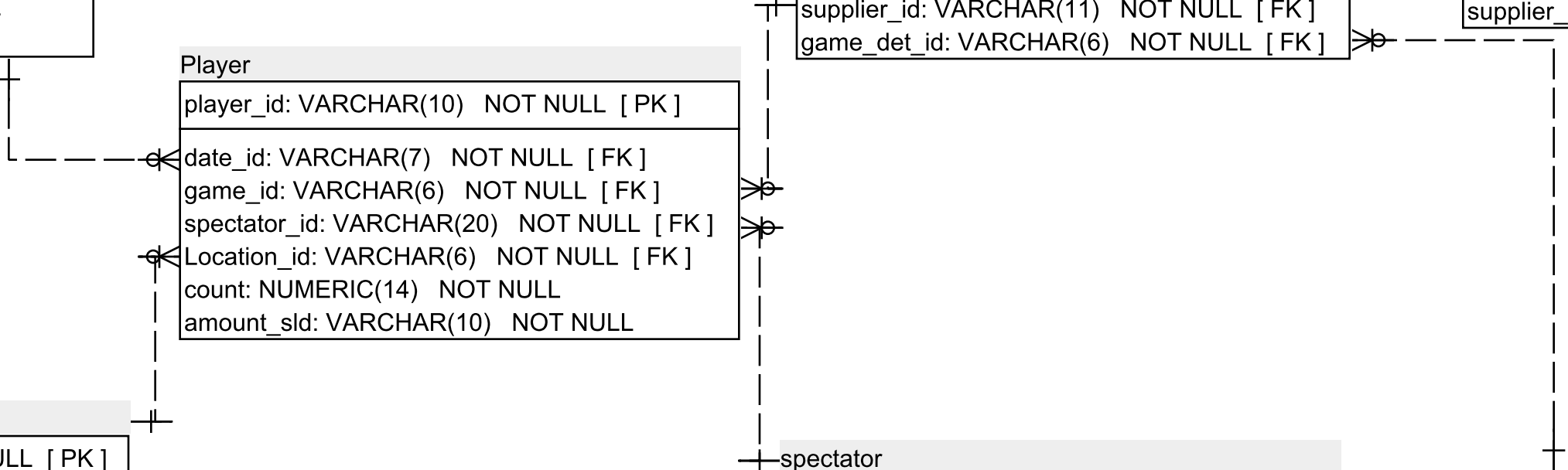state: VARCHAR(11) NOT NULL

spectator

spectator_id: VARCHAR(20) NOT NULL [PK]

spectator_name: VARCHAR(20) NOT NULL
spectator_age: VARCHAR(10) NOT NULL
gender: VARCHAR(11) NOT NULL
contact_details: VARCHAR(15) NOT NULL

game_details

game_det_id: VARCHAR(6) NOT NULL [PK]

no_of_players: VARCHAR(10) NOT NULL
age_restriction: VARCHAR(10) NOT NULL
game_type: VARCHAR(10) NOT NULL

datedt

date_id: VARCHAR(7)   NOT NULL   [PK]

day: VARCHAR(10)   NOT NULL
month: VARCHAR(11)   NOT NULL
year: VARCHAR(6)   NOT NULL

game

game_id: VARCHAR(6)   NOT NULL   [PK]

game_name: VARCHAR(10)   NOT NULL
game_time: VARCHAR(10)   NOT NULL
description: VARCHAR(20)   NOT NULL

Player

player_id: VARCHAR(10)   NOT NULL   [PK]

date_id: VARCHAR(7)   NOT NULL   [FK]
game_id: VARCHAR(6)   NOT NULL   [FK]
Location_id: VARCHAR(6)   NOT NULL   [FK]
spectator_id: VARCHAR(20)   NOT NULL   [FK]
count: NUMERIC(14)   NOT NULL
amount_sld: VARCHAR(10)   NOT NULL

Location

location_id: VARCHAR(6)   NOT NULL   [PK]

street: VARCHAR(6)   NOT NULL
pin_code: VARCHAR(6)   NOT NULL
city: VARCHAR(10)   NOT NULL
state: VARCHAR(11)   NOT NULL

spectator

spectator_id: VARCHAR(20)   NOT NULL   [PK]

spectator_name: VARCHAR(20)   NOT NULL
spectator_age: VARCHAR(10)   NOT NULL
gender: VARCHAR(11)   NOT NULL
contact_details: VARCHAR(15)   NOT NULL