```
CREATE TABLE game details (
3
                      game det id VARCHAR2 (6) NOT NULL,
                      no of players VARCHAR2 (10) NOT NULL,
                      age restriction VARCHAR2 (10) NOT NULL,
 6
                      game_type VARCHAR2(10) NOT NULL,
7
                      CONSTRAINT GAME DET PK PRIMARY KEY (game det id)
8
     );
9
10
11
     CREATE TABLE supplier (
12
                      supplier id VARCHAR2 (11) NOT NULL,
13
                      supplier name VARCHAR2 (15) NOT NULL,
14
                      supplier type VARCHAR2 (27) NOT NULL,
15
                      CONSTRAINT SUPPLIER PK PRIMARY KEY (supplier id)
16
     );
17
18
19
     CREATE TABLE spectator (
20
                      spectator id VARCHAR2 (20) NOT NULL,
21
                      spectator name VARCHAR2 (20) NOT NULL,
                      spectator_age VARCHAR2(10) NOT NULL,
22
23
                      gender VARCHAR2 (11) NOT NULL,
24
                      contact details VARCHAR2 (15) NOT NULL,
25
                      CONSTRAINT SPECTATOR PK PRIMARY KEY (spectator id)
26
     );
27
28
29
     CREATE TABLE game (
30
                      game id VARCHAR2 (6) NOT NULL,
31
                      game name VARCHAR2 (10) NOT NULL,
32
                      game time VARCHAR2 (10) NOT NULL,
33
                      description VARCHAR2 (20) NOT NULL,
                      supplier id VARCHAR2(11) NOT NULL,
34
35
                      game det id VARCHAR2 (6) NOT NULL,
36
                      CONSTRAINT GAME PK PRIMARY KEY (game id)
37
     );
38
39
40
     CREATE TABLE Location (
41
                      location id VARCHAR2 (6) NOT NULL,
42
                      street VARCHAR2 (6) NOT NULL,
43
                      pin code VARCHAR2 (6) NOT NULL,
44
                      city VARCHAR2 (10) NOT NULL,
45
                      state VARCHAR2 (11) NOT NULL,
46
                      CONSTRAINT LOCATION_PK PRIMARY KEY (location_id)
47
     );
48
49
50
     CREATE TABLE datedt (
51
                      date id VARCHAR2(7) NOT NULL,
52
                      day VARCHAR2 (10) NOT NULL,
53
                      month VARCHAR2 (11) NOT NULL,
54
                      year VARCHAR2(6) NOT NULL,
55
                      CONSTRAINT DATEDT ID PRIMARY KEY (date id)
56
     );
57
58
59
     CREATE TABLE player (
60
                      player_id VARCHAR2(10) NOT NULL,
61
                      date_id VARCHAR2(7) NOT NULL,
62
                      game id VARCHAR2(6) NOT NULL,
63
                      spectator id VARCHAR2 (20) NOT NULL,
64
                      Location id VARCHAR2 (6) NOT NULL,
65
                      count NUMBER (14) NOT NULL,
                      amount sld VARCHAR2 (10) NOT NULL,
66
67
                      CONSTRAINT PLAYER_PK PRIMARY KEY (player_id)
68
     );
```

69

```
71
     ALTER TABLE game ADD CONSTRAINT GAME DETAILS GAME FK
72
    FOREIGN KEY (game det id)
73
     REFERENCES game details (game_det_id)
74
    NOT DEFERRABLE;
75
76 ALTER TABLE game ADD CONSTRAINT SUPPLIER_GAME_FK
77 FOREIGN KEY (supplier id)
78 REFERENCES supplier (supplier id)
79 NOT DEFERRABLE;
80
81 ALTER TABLE player ADD CONSTRAINT SPECTATOR PLAYER FK
82 FOREIGN KEY (spectator id)
83 REFERENCES spectator (spectator_id)
84 NOT DEFERRABLE;
85
86 ALTER TABLE player ADD CONSTRAINT GAME PLAYER FK
87 FOREIGN KEY (game_id)
88 REFERENCES game (game id)
89 NOT DEFERRABLE;
90
91 ALTER TABLE player ADD CONSTRAINT LOCATION PLAYER FK
92 FOREIGN KEY (Location id)
93 REFERENCES Location (location id)
94 NOT DEFERRABLE;
95
96 ALTER TABLE player ADD CONSTRAINT DATE PLAYER FK
97 FOREIGN KEY (date_id)
98 REFERENCES datedt (date id)
99
    NOT DEFERRABLE;
100
```

```
CREATE TABLE spectator (
 3
                      spectator id VARCHAR2 (20) NOT NULL,
                      spectator name VARCHAR2 (20) NOT NULL,
                      spectator_age VARCHAR2(10) NOT NULL,
                      gender VARCHAR2 (11) NOT NULL,
 6
 7
                      contact details VARCHAR2 (15) NOT NULL,
 8
                      CONSTRAINT SPECTATOR PK PRIMARY KEY (spectator id)
9
     );
10
11
12
     CREATE TABLE game (
13
                      game id VARCHAR2 (6) NOT NULL,
14
                      game_name VARCHAR2(10) NOT NULL,
15
                      game time VARCHAR2 (10) NOT NULL,
                      description VARCHAR2 (20) NOT NULL,
16
17
                      CONSTRAINT GAME PK PRIMARY KEY (game id)
18
     );
19
20
21
     CREATE TABLE Location (
22
                      location id VARCHAR2 (6) NOT NULL,
23
                      street VARCHAR2 (6) NOT NULL,
24
                      pin code VARCHAR2 (6) NOT NULL,
25
                      city VARCHAR2 (10) NOT NULL,
26
                      state VARCHAR2 (11) NOT NULL,
                      CONSTRAINT LOCATION PK PRIMARY KEY (location id)
27
28
     );
29
30
31
     CREATE TABLE datedt (
32
                      date id VARCHAR2 (7) NOT NULL,
33
                      day VARCHAR2 (10) NOT NULL,
                      month VARCHAR2 (11) NOT NULL,
34
35
                      year VARCHAR2(6) NOT NULL,
36
                      CONSTRAINT DATE ID PRIMARY KEY (date id)
37
     );
38
39
40
     CREATE TABLE player (
41
                      player id VARCHAR2 (10) NOT NULL,
42
                      date id VARCHAR2(7) NOT NULL,
43
                      game id VARCHAR2 (6) NOT NULL,
44
                      Location id VARCHAR2 (6) NOT NULL,
45
                      spectator id VARCHAR2 (20) NOT NULL,
46
                      count NUMBER (14) NOT NULL,
47
                      amount sld VARCHAR2 (10) NOT NULL,
48
                      CONSTRAINT PLAYER PK PRIMARY KEY (player id)
49
     );
50
51
52
     ALTER TABLE player ADD CONSTRAINT SPECTATOR PLAYER FK
53
     FOREIGN KEY (spectator id)
54
    REFERENCES spectator (spectator_id)
55
    NOT DEFERRABLE;
56
57
    ALTER TABLE player ADD CONSTRAINT GAME PLAYER FK
58
    FOREIGN KEY (game id)
59
     REFERENCES game (game id)
60
    NOT DEFERRABLE;
61
62
   ALTER TABLE player ADD CONSTRAINT LOCATION PLAYER FK
63 FOREIGN KEY (Location id)
64 REFERENCES Location (location id)
65
   NOT DEFERRABLE;
66
     ALTER TABLE player ADD CONSTRAINT DATE PLAYER FK
67
68
     FOREIGN KEY (date id)
69
     REFERENCES datedt (date id)
```

70 NOT DEFERRABLE; 71

```
-- 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);
 6
 7
    SELECT * FROM datedt;
 8
9
   TIME I DAY MONTH YEAR
10 -----

    11
    T01
    11
    11
    2017

    12
    T02
    28
    2
    2017

    13
    T03
    23
    12
    2019

14
15
16
    -- GAME dimension table
17    INSERT INTO game VALUES('G01','Game1','25','SINGLE');
18    INSERT INTO game VALUES('G02','Game2','40','MULTIPLE');
19    INSERT INTO game VALUES('G03','Game3','30','SINGLE');
20    SELECT * FROM game;
21
22 /*
23 GAME I GAME NAME GAME TIME
                                             DESCRIPTION
24 -----
                    25
40
30
25 G01 Game1
26 G02 Game2
27 G03 Game3
                                                SINGLE
                                               MULTIPLE
                                                SINGLE
28
    * /
29
30
    -- LOCATION dimension table
31
32 INSERT INTO location VALUES('L101','S101','123456','C101','MH');
33 INSERT INTO location VALUES ('L102', 'S102', '723432', 'C101', 'MH');
   INSERT INTO location VALUES('L103','S103','235334','C102','MH');
34
35
36
    SELECT * FROM location;
37
38
    /*
39 LOCATI STREET CITY PIN_CO STATE
40 -----
41 L101 S101 C101 123456 MH
42 L102 S102 C101 723432
43 L103 S103 C102 235334
44 */
45
46
47
    -- SPECTATOR dimension table
48
49
   INSERT INTO spectator VALUES('SPO','AAY','STUDENT',19);
50
   INSERT INTO spectator VALUES('SP1','POO','SENIOR CITIZEN',20);
51
52
   SELECT * FROM spectator;
53
54 SPECTA SPEC_NAME GENDER SPEC_TYPE SPEC_AGE
55 ----- -------
56 SPO ABC F CHILD
57 SP1 PQR M ADULT
                                                           30
58
    * /
59
60
61
    -- PLAYER Fact table
    INSERT INTO player VALUES('P101','T01','G01','L101','SP0',10,250);
62
63
    INSERT INTO player VALUES('P102','T01','G02','L102','SP1',12,300);
64
65
66 SELECT * FROM player;
67 /*
68 PLAYER DATE_I GAME_I LOCATI SPECTA COUNT AMOUNT S
69
```

```
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:
ORA-02291: integrity constraint (POONAM.DATEDT_PLAYER_FK)
82
    violated - parent key not found
83
84
85
```



