

/*

Database Title: Football league Database

MEMBER DETAILS:

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Content : DDL script of database

*/

CREATE SCHEMA FBL;

SET SEARCH_PATH TO FBL;

CREATE TABLE TEAM(

TEAM_NAME VARCHAR(50) PRIMARY KEY,
MATCHES_PLAYED SMALLINT NOT NULL,
WON SMALLINT NOT NULL,
DRAW SMALLINT NOT NULL,
LOST SMALLINT NOT NULL,
GOAL_FOR SMALLINT NOT NULL,
GOAL_AGAINST SMALLINT NOT NULL,
POINTS INT NOT NULL
);

CREATE TABLE CONTACT_DETAIL(

TEAM_NAME VARCHAR(50),
EMAIL VARCHAR(50) PRIMARY KEY,
CONTACT_NO VARCHAR(20)

);

```
CREATE TABLE VENUE(  
    TEAM_NAME VARCHAR(50) NOT NULL,  
    VENUE_NAME VARCHAR(50) PRIMARY KEY,  
    CAPACITY INT NOT NULL,  
    CITY VARCHAR(50) NOT NULL  
);
```

```
CREATE TABLE COACH(  
    TEAM_NAME VARCHAR(50) NOT NULL,  
    NAME VARCHAR(50) PRIMARY KEY  
);
```

```
CREATE TABLE MANAGER(  
    TEAM_NAME VARCHAR(50) NOT NULL,  
    NAME VARCHAR(50) PRIMARY KEY  
);
```

```
CREATE TABLE MATCHES(  
    MATCH_NUMBER INT PRIMARY KEY,  
    MATCH_DATE VARCHAR(10) NOT NULL,  
    HOME_TEAM VARCHAR(50) NOT NULL,  
    AWAY_TEAM VARCHAR(50) NOT NULL CHECK(HOME_TEAM <> AWAY_TEAM),  
    REFEREE VARCHAR(50),  
    SCORE_H SMALLINT NOT NULL,  
    SCORE_A SMALLINT NOT NULL,  
    MOM VARCHAR(20) NOT NULL  
);
```

```
CREATE VIEW MATCH AS  
    SELECT  
    MATCH_NUMBER, MATCH_DATE, HOME_TEAM, AWAY_TEAM, SCORE_H, SCORE_A, MOM FROM  
    MATCHES;
```

```
CREATE TYPE GS AS ENUM('NT', 'ST');  
CREATE TYPE GT AS ENUM('N', 'O', 'P');
```

```
CREATE TABLE GOALS(  
    GOAL_ID INT PRIMARY KEY,  
    GOAL_TIME INT NOT NULL,  
    GOAL_TYPE GT NOT NULL,  
    GOAL_SCHEDULE GS NOT NULL,  
    GOAL_HALF SMALLINT CHECK ( GOAL_HALF >=1 AND GOAL_HALF <= 2) NOT NULL,  
    ASSISTED_BY INT,  
    MATCH_NUMBER INT NOT NULL,  
    SCORED_BY INT NOT NULL  
);
```

```
CREATE TYPE RT AS ENUM('MAIN', 'ASSISTANT');  
CREATE TABLE HAS_REFEREE(  
    MATCH_NUMBER INT NOT NULL,  
    REF_LICENCE_NUMBER VARCHAR(8) NOT NULL,  
    REF_TYPE RT,  
    PRIMARY KEY(MATCH_NUMBER, REF_LICENCE_NUMBER)  
);
```

```
CREATE TABLE REFEREE(  
    NAME VARCHAR(20) NOT NULL,  
    REF_LICENCE_NUMBER VARCHAR(8) PRIMARY KEY  
);
```

```
CREATE TABLE PLAYER(  
    PLAYER_ID INT PRIMARY KEY,  
    PLAYER_NAME VARCHAR(50) NOT NULL,  
    TEAM_NAME VARCHAR(50) NOT NULL,
```

```
    AGE INT NOT NULL,
    NATIONALITY VARCHAR(20) NOT NULL,
    JERSEY_NO SMALLINT NOT NULL
);
```

```
CREATE TABLE CAPTAIN(
    TEAM_NAME VARCHAR(50) NOT NULL,
    PLAYER_ID INT,
    START_DATE VARCHAR(10) NOT NULL,
    END_DATE VARCHAR(10),
    PRIMARY KEY(PLAYER_ID, TEAM_NAME)
);
```

```
CREATE TYPE PO AS ENUM('CB', 'LB', 'RB', 'RW', 'LW', 'CF', 'SS', 'LM', 'RM', 'CM', 'AM', 'DM', 'GK');
CREATE TABLE POSITION(
    PID PO PRIMARY KEY,
    DISCRIPTION VARCHAR(20)
);
```

```
CREATE TABLE PLAYS_ON(
    PLAYER_ID INT,
    PID PO,
    PRIMARY KEY(PLAYER_ID, PID)
);
```

```
CREATE TYPE BT AS ENUM('YELLOW', 'RED');
```

```
CREATE TABLE BOOKING(
    MATCH_NUMBER INT NOT NULL,
    PLAYER_ID INT NOT NULL,
    BOOKING_TIME INT NOT NULL,
    PLAY_SCHEDULE GS NOT NULL,
```

```
    BOOKING_TYPE BT NOT NULL,  
    PRIMARY KEY(MATCH_NUMBER,PLAYER_ID)  
);
```

```
CREATE TABLE SUBSTITUTION(  
    MATCH_NUMBER INT NOT NULL,  
    PLAYER_ID_OUT INT NOT NULL,  
    PLAYER_ID_IN INT NOT NULL,  
    PLAY_SCHEDULE GS NOT NULL,  
    TIME_IN_OUT INT NOT NULL,  
    PRIMARY KEY(PLAYER_ID_OUT,MATCH_NUMBER)  
);
```

```
ALTER TABLE CAPTAIN  
ADD FOREIGN KEY (TEAM_NAME) REFERENCES TEAM(TEAM_NAME);
```

```
ALTER TABLE VENUE  
ADD FOREIGN KEY (TEAM_NAME) REFERENCES TEAM(TEAM_NAME);
```

```
ALTER TABLE MATCHES  
ADD FOREIGN KEY (HOME_TEAM) REFERENCES TEAM(TEAM_NAME);
```

```
ALTER TABLE MATCHES  
ADD FOREIGN KEY (AWAY_TEAM) REFERENCES TEAM(TEAM_NAME);
```

```
ALTER TABLE COACH  
ADD FOREIGN KEY (TEAM_NAME) REFERENCES TEAM(TEAM_NAME);
```

```
ALTER TABLE MANAGER  
ADD FOREIGN KEY (TEAM_NAME) REFERENCES TEAM(TEAM_NAME);
```

```
ALTER TABLE PLAYER
```

```
ADD FOREIGN KEY (TEAM_NAME) REFERENCES TEAM(Team_Name);
```

```
ALTER TABLE HAS_REFEREE
```

```
ADD FOREIGN KEY (MATCH_NUMBER) REFERENCES MATCHES(Match_Number);
```

```
ALTER TABLE GOALS
```

```
ADD FOREIGN KEY (MATCH_NUMBER) REFERENCES MATCHES(Match_Number);
```

```
ALTER TABLE CONTACT_Detail
```

```
ADD FOREIGN KEY (Team_Name) REFERENCES TEAM(Team_Name);
```

```
ALTER TABLE GOALS
```

```
ADD FOREIGN KEY (Assisted_By) REFERENCES PLAYER(Player_ID);
```

```
ALTER TABLE CAPTAIN
```

```
ADD FOREIGN KEY (Player_ID) REFERENCES PLAYER(Player_ID);
```

```
ALTER TABLE GOALS
```

```
ADD FOREIGN KEY (Scored_By) REFERENCES PLAYER(Player_ID);
```

```
ALTER TABLE PLAYS_ON
```

```
ADD FOREIGN KEY (PID) REFERENCES POSITION(PID);
```

```
ALTER TABLE PLAYS_ON
```

```
ADD FOREIGN KEY (Player_ID) REFERENCES PLAYER(Player_ID);
```

```
ALTER TABLE HAS_REFEREE
```

```
ADD FOREIGN KEY (Ref_Licence_Number) REFERENCES REFEREE(Ref_Licence_Number);
```

```
ALTER TABLE SUBSTITUTION
```

```
ADD FOREIGN KEY (Player_ID_In) REFERENCES PLAYER(Player_ID);
```

ALTER TABLE SUBSTITUTION

ADD FOREIGN KEY (PLAYER_ID_OUT) REFERENCES PLAYER(PLAYER_ID);

ALTER TABLE SUBSTITUTION

ADD FOREIGN KEY (MATCH_NUMBER) REFERENCES MATCHES(MATCH_NUMBER);

ALTER TABLE BOOKING

ADD FOREIGN KEY (PLAYER_ID) REFERENCES PLAYER(PLAYER_ID);

ALTER TABLE BOOKING

ADD FOREIGN KEY (MATCH_NUMBER) REFERENCES MATCHES(MATCH_NUMBER);