

```

DROP TABLE IF EXISTS [ModelTeammate.Acquire];
DROP TABLE IF EXISTS [ModelTeammate.Play];
DROP TABLE IF EXISTS [ModelTeammate.Statistics];
DROP TABLE IF EXISTS [ModelTeammate.Player];
DROP TABLE IF EXISTS [ModelTeammate.Coach];
DROP TABLE IF EXISTS [ModelTeammate.Matches];
DROP TABLE IF EXISTS [ModelTeammate.Club];
DROP TABLE IF EXISTS [ModelTeammate.League];

```

```

CREATE TABLE [ModelTeammate.League] (
    lgName VARCHAR(30) NOT NULL,
    lgSeasonStart DATE,
    lgSeasonEnd DATE,
    CONSTRAINT pk_League_lgName PRIMARY KEY (lgName)
)

```

```

CREATE TABLE [ModelTeammate.Club] (
    clbName VARCHAR(20) NOT NULL,
    clbDateEstablish DATE,
    clbOwner VARCHAR(20),
    lgName VARCHAR(30),
    cchID CHAR(10),
    CONSTRAINT pk_Club_clbName PRIMARY KEY (clbName),
    CONSTRAINT fk_Club_lgName FOREIGN KEY (lgName)
        REFERENCES [ModelTeammate.League] (lgName)
        ON DELETE NO ACTION ON UPDATE CASCADE
)

```

```

CREATE TABLE [ModelTeammate.Matches] (
    mtcID CHAR(10) NOT NULL,
    mtcDate DATE,
    mtcVenue CHAR(4),
    mtcResult CHAR(1),
    mtcOpponent VARCHAR(20),
    mtcPossession INT
    CONSTRAINT pk_Matches_mtcID PRIMARY KEY (mtcID)
)

```

```

CREATE TABLE [ModelTeammate.Coach] (
    cchID CHAR (10) NOT NULL,
    cchFirstName VARCHAR (20),
    cchLastName VARCHAR (20),
    cchSalary VARCHAR (10),
    CONSTRAINT pk_Coach_cchID PRIMARY KEY (cchID)
)

```

```

CREATE TABLE [ModelTeammate.Player] (
    plrId CHAR (10) NOT NULL,
    plrFirstName VARCHAR (20),
    plrLastName VARCHAR (20),
    plrNation VARCHAR (20),
    plrPosition VARCHAR (20),
    plrAge INT,
    plrFullMatches numeric(4,2), --Changed DECIMAL to NUMERIC
    clbName VARCHAR (20),
    plrSalary INT,
    CONSTRAINT pk_Player_plrId PRIMARY KEY (plrId),
    CONSTRAINT fk_Player_clbName FOREIGN KEY (clbName)

```

```
REFERENCES [ModelTeammate.Club] (clubName)
ON DELETE SET NULL ON UPDATE CASCADE)
```

```
--changing data type for now
--ALTER TABLE [ModelTeammate.Player]
--ALTER COLUMN plrFullMatches numeric(4,2);
```

```
CREATE TABLE [ModelTeammate.Statistics] (
    sttPlrID CHAR(10),
    sttGoals NUMERIC (6,2),
    sttShotPG NUMERIC (6,2),
    sttShotOnTargPG NUMERIC (6,2),
    sttGoalPerShot NUMERIC (6,2),
    sttGoalPerShotOnTarg NUMERIC (6,2),
    sttAssist NUMERIC (6,2),
    sttYellow NUMERIC (6,2),
    sttRed NUMERIC (6,2),
    sttMatchPlayed NUMERIC (6,2),
    sttPassPercent NUMERIC (6,2),
    CONSTRAINT pk_Statistics_sttPlrID PRIMARY KEY (sttPlrID))
```

```
CREATE TABLE [ModelTeammate.Play](
    clubName VARCHAR(20) NOT NULL,
    mtcID CHAR(10) NOT NULL,
    CONSTRAINT pk_Play_tmName_mtcID PRIMARY KEY (clubName, mtcID),
    CONSTRAINT fk_Play_clubName FOREIGN KEY (clubName)
        REFERENCES [ModelTeammate.Club](clubName)
        ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT fk_Play_mtcID FOREIGN KEY (mtcID)
        REFERENCES [ModelTeammate.Matches](mtcID)
        ON DELETE NO ACTION ON UPDATE NO ACTION)
```

```
DROP TABLE IF EXISTS [ModelTeammate.Acquire];
CREATE TABLE [ModelTeammate.Acquire](
    plrID CHAR(10) NOT NULL,
    sttPlrID CHAR(10),
    CONSTRAINT pk_Acquire_plrID_sttPlrID PRIMARY KEY (plrID, sttPlrID),
    CONSTRAINT fk_Acquire_plrID FOREIGN KEY (plrID)
        REFERENCES [ModelTeammate.Player](plrID)
        ON DELETE NO ACTION ON UPDATE NO ACTION,
    CONSTRAINT fk_Acquire_sttPlrID FOREIGN KEY (sttPlrID)
        REFERENCES [ModelTeammate.Statistics](sttPlrID)
        ON DELETE NO ACTION ON UPDATE NO ACTION)
```

```
INSERT INTO [ModelTeammate.League] VALUES
('Premiere League','2022-08-06','2023-05-28')
INSERT INTO [ModelTeammate.Club] VALUES
('Manchester United','1878','Glazer','Premiere League','MUC0000001')
```

```
INSERT INTO [ModelTeammate.Matches] VALUES
('MUM2223001','8/7/2022','Home','L','Brighton','62'),
('MUM2223002','8/13/2022','Away','L','Brentford','66'),
('MUM2223003','8/22/2022','Home','W','Liverpool','30'),
('MUM2223004','8/27/2022','Away','W','Southampton','51'),
('MUM2223005','9/1/2022','Away','W','Leicester City','47'),
('MUM2223006','9/4/2022','Home','W','Arsenal','40'),
('MUM2223007','9/8/2022','Home','L','es Real Sociedad','55'),
('MUM2223008','9/11/2022','Away','','Crystal Palace',''),
```

```
( 'MUM2223009', '9/15/2022', 'Away', 'W', 'md Sheriff Tiraspol', '68'),
( 'MUM2223010', '09/18/2022', 'Home', '', 'Leeds United', ''),
( 'MUM2223011', '10/02/2022', 'Away', 'L', 'Manchester City', '47'),
( 'MUM2223012', '10/06/2022', 'Away', 'W', 'cy AC Omonia', '73'),
( 'MUM2223013', '10/09/2022', 'Away', 'W', 'Everton', '60'),
( 'MUM2223014', '10/13/2022', 'Home', 'W', 'cy AC Omonia', '78'),
( 'MUM2223015', '10/16/2022', 'Home', 'D', 'Newcastle Utd', '63'),
( 'MUM2223016', '10/19/2022', 'Home', 'W', 'Tottenham', '52'),
( 'MUM2223017', '10/22/2022', 'Away', 'D', 'Chelsea', '52'),
( 'MUM2223018', '10/27/2022', 'Home', 'W', 'md Sheriff Tiraspol', '74'),
( 'MUM2223019', '10/30/2022', 'Home', 'W', 'West Ham', '53'),
( 'MUM2223020', '11/03/2022', 'Away', 'W', 'es Real Sociedad', '53'),
( 'MUM2223021', '11/06/2022', 'Away', 'L', 'Aston Villa', '58'),
( 'MUM2223022', '11/10/2022', 'Home', 'W', 'Aston Villa', '59'),
( 'MUM2223023', '11/13/2022', 'Away', 'W', 'Fulham', '47'),
( 'MUM2223024', '12/21/2022', 'Home', '', 'Burnley', ''),
( 'MUM2223025', '12/27/2022', 'Home', '', 'Nottham Forest', ''),
( 'MUM2223026', '12/31/2022', 'Away', '', 'Wolves', ''),
( 'MUM2223027', '01/03/2023', 'Home', '', 'Bournemouth', ''),
( 'MUM2223028', '01/14/2023', 'Home', '', 'Manchester City', ''),
( 'MUM2223029', '01/22/2023', 'Away', '', 'Arsenal', ''),
( 'MUM2223030', '02/04/2023', 'Home', '', 'Crystal Palace', ''),
( 'MUM2223031', '02/11/2023', 'Away', '', 'Leeds United', ''),
( 'MUM2223032', '02/16/2023', 'Away', '', 'es Barcelona', ''),
( 'MUM2223033', '02/18/2023', 'Home', '', 'Leicester City', ''),
( 'MUM2223034', '02/23/2023', 'Home', '', 'es Barcelona', ''),
( 'MUM2223035', '02/25/2023', 'Home', '', 'Brentford', ''),
( 'MUM2223036', '03/04/2023', 'Away', '', 'Liverpool', ''),
( 'MUM2223037', '03/11/2023', 'Home', '', 'Southampton', ''),
( 'MUM2223038', '03/18/2023', 'Away', '', 'Brighton', ''),
( 'MUM2223039', '04/01/2023', 'Away', '', 'Newcastle Utd', ''),
( 'MUM2223040', '04/08/2023', 'Home', '', 'Everton', ''),
( 'MUM2223041', '04/15/2023', 'Away', '', 'Nottham Forest', ''),
( 'MUM2223042', '04/22/2023', 'Home', '', 'Chelsea', ''),
( 'MUM2223043', '04/25/2023', 'Away', '', 'Tottenham', ''),
( 'MUM2223044', '04/29/2023', 'Home', '', 'Aston Villa', ''),
( 'MUM2223045', '05/06/2023', 'Away', '', 'West Ham', ''),
( 'MUM2223046', '05/13/2023', 'Home', '', 'Wolves', ''),
( 'MUM2223047', '05/20/2023', 'Away', '', 'Bournemouth', ''),
( 'MUM2223048', '05/28/2023', 'Home', '', 'Fulham', '')
```

```
INSERT INTO [ModelTeammate.Coach] VALUES
( 'MUC00000001', 'Erik', 'ten Hag', '90000000')
```

```
INSERT INTO [ModelTeammate.Player] VALUES
( 'MU000000001', 'David', 'de Gea', 'ESP', 'GK', 32, 14.0, 'Manchester United', 19500000),
( 'MU000000002', 'Lisandro', 'Martínez', 'ARG', 'DF', 24, 13.4, 'Manchester
United', 6240000),
( 'MU000000003', 'Bruno', 'Fernandes', 'POR', 'MF', 28, 13.0, 'Manchester United', 12480000),
( 'MU000000004', 'Diogo', 'Dalot', 'POR', 'DF', 23, 12.9, 'Manchester United', 13000000),
( 'MU000000005', 'Marcus', 'Rashford', 'ENG', 'FW', 25, 12.5, 'Manchester United', 10400000),
( 'MU000000006', 'Christian', 'Eriksen', 'DEN', 'MF', 30, 11.6, 'Manchester
United', 7800000),
( 'MU000000007', 'Jadon', 'Sancho', 'ENG', 'FW', 22, 7.9, 'Manchester United', 18200000),
( 'MU000000008', 'Luke', 'Shaw', 'ENG', 'DF', 27, 8.7, 'Manchester United', 7800000),
( 'MU000000009', 'Raphaél', 'Varane', 'FRA', 'DF', 29, 7.6, 'Manchester United', 17680000),
( 'MU000000010', 'Carlos', 'Casemiro', 'BRA', 'MF', 30, 7.9, 'Manchester United', 15600000),
( 'MU000000011', 'Scott', 'McTominay', 'SCO', 'MF', 25, 7.1, 'Manchester United', 3120000),
( 'MU000000012', 'Tyrell', 'Malacia', 'NED', 'DF', 23, 6.3, 'Manchester United', 3900000),
```

```
( 'MU00000013', 'Antony', 'dos Santo', 'BRA', 'MF', 22, 5.5, 'Manchester United', 10400000),
( 'MU00000014', 'Anthony', 'Elanga', 'SWE', 'FW', 20, 4.1, 'Manchester United', 470000),
( 'MU00000015', 'Cristiano', 'Ronaldo', 'POR', 'FW', 37, 5.8, 'Manchester
United', 26800000),
( 'MU00000016', 'Fred', 'de Paula Santos', 'BRA', 'MF', 29, 4.4, 'Manchester
United', 6240000),
( 'MU00000017', 'Victor', 'Lindelof', 'SWE', 'DF', 28, 3.9, 'Manchester United', 6240000),
( 'MU00000018', 'Harry', 'Maguire', 'ENG', 'DF', 29, 3.1, 'Manchester United', 9875000),
( 'MU00000019', 'Anthony', 'Martial', 'FRA', 'FW', 26, 2.2, 'Manchester United', 13000000),
( 'MU00000020', 'Donny', 'van de Beek', 'NED', 'MF', 25, 1.0, 'Manchester United', 6240000),
( 'MU00000021', 'Alejandro', 'Garnacho', 'ESP', 'FW', 18, 0.9, 'Manchester United', 78000),
( 'MU00000022', 'Aaron', 'Wan-Bissaka', 'ENG', 'DF', 25, 0.1, 'Manchester United', 4680000)
```

```
INSERT INTO [ModelTeammate.Statistics] VALUES
( 'MUS0000001', 0, 0, 0, 0, 0, 0, 0, 0, 14, 68.4),
( 'MUS0000002', 0, 0.22, 0, 0, 0, 0, 3, 0, 14, 85.9),
( 'MUS0000003', 2, 2, 0.69, 0.08, 0.22, 1, 5, 0, 13, 75.1),
( 'MUS0000004', 0, 0.77, 0.23, 0, 0, 1, 5, 0, 13, 76.9),
( 'MUS0000005', 4, 2.56, 1.04, 0.13, 0.31, 2, 1, 0, 14, 73),
( 'MUS0000006', 1, 1.64, 0.69, 0.05, 0.13, 4, 1, 0, 13, 77.8),
( 'MUS0000007', 2, 0.88, 0.5, 0.29, 0.5, 1, 0, 0, 10, 81.5),
( 'MUS0000008', 0, 0.46, 0.23, 0, 0, 1, 3, 0, 10, 83.2),
( 'MUS0000009', 0, 0.13, 0, 0, 0, 0, 1, 0, 10, 83.5),
( 'MUS0000010', 1, 1.14, 0.38, 0.11, 0.33, 1, 2, 0, 11, 77.8),
( 'MUS0000011', 0, 0.84, 0.28, 0, 0, 0, 5, 0, 12, 81.6),
( 'MUS0000012', 0, 0.16, 0, 0, 0, 0, 2, 0, 9, 83.3),
( 'MUS0000013', 3, 3.67, 1.65, 0.15, 0.33, 0, 1, 0, 6, 79.7),
( 'MUS0000014', 0, 1.71, 0.73, 0, 0, 1, 0, 0, 10, 75.9),
( 'MUS0000015', 1, 4.29, 1.03, 0.04, 0.17, 0, 2, 0, 10, 74.7),
( 'MUS0000016', 1, 3.17, 0.68, 0.07, 0.33, 0, 2, 0, 11, 80.1),
( 'MUS0000017', 0, 0, 0, 0, 0, 0, 0, 0, 5, 93.3),
( 'MUS0000018', 0, 0.32, 0, 0, 0, 0, 3, 0, 4, 87.4),
( 'MUS0000019', 2, 1.79, 1.34, 0.25, 0.33, 2, 0, 0, 5, 77.4),
( 'MUS0000020', 0, 1.03, 0, 0, 0, 0, 0, 0, 4, 86.2),
( 'MUS0000021', 1, 2.14, 2.14, 0.5, 0.5, 0, 1, 0, 3, 80.6),
( 'MUS0000022', 0, 0, 0, 0, 0, 0, 0, 0, 1, 50)
```

```
INSERT INTO [ModelTeammate.Play] VALUES
( 'Manchester United', 'MUM2223001'),
( 'Manchester United', 'MUM2223002'),
( 'Manchester United', 'MUM2223003'),
( 'Manchester United', 'MUM2223004'),
( 'Manchester United', 'MUM2223005'),
( 'Manchester United', 'MUM2223006'),
( 'Manchester United', 'MUM2223007'),
( 'Manchester United', 'MUM2223008'),
( 'Manchester United', 'MUM2223009'),
( 'Manchester United', 'MUM2223010'),
( 'Manchester United', 'MUM2223011'),
( 'Manchester United', 'MUM2223012'),
( 'Manchester United', 'MUM2223013'),
( 'Manchester United', 'MUM2223014'),
( 'Manchester United', 'MUM2223015'),
( 'Manchester United', 'MUM2223016'),
( 'Manchester United', 'MUM2223017'),
( 'Manchester United', 'MUM2223018'),
( 'Manchester United', 'MUM2223019'),
( 'Manchester United', 'MUM2223020'),
( 'Manchester United', 'MUM2223021'),
```

```
( 'Manchester United', 'MUM2223022'),
( 'Manchester United', 'MUM2223023'),
( 'Manchester United', 'MUM2223024'),
( 'Manchester United', 'MUM2223025'),
( 'Manchester United', 'MUM2223026'),
( 'Manchester United', 'MUM2223027'),
( 'Manchester United', 'MUM2223028'),
( 'Manchester United', 'MUM2223029'),
( 'Manchester United', 'MUM2223030'),
( 'Manchester United', 'MUM2223031'),
( 'Manchester United', 'MUM2223032'),
( 'Manchester United', 'MUM2223033'),
( 'Manchester United', 'MUM2223034'),
( 'Manchester United', 'MUM2223035'),
( 'Manchester United', 'MUM2223036'),
( 'Manchester United', 'MUM2223037'),
( 'Manchester United', 'MUM2223038'),
( 'Manchester United', 'MUM2223039'),
( 'Manchester United', 'MUM2223040'),
( 'Manchester United', 'MUM2223041'),
( 'Manchester United', 'MUM2223042'),
( 'Manchester United', 'MUM2223043'),
( 'Manchester United', 'MUM2223044'),
( 'Manchester United', 'MUM2223045'),
( 'Manchester United', 'MUM2223046'),
( 'Manchester United', 'MUM2223047'),
( 'Manchester United', 'MUM2223048')
```

```
INSERT INTO [ModelTeammate.Acquire] VALUES
```

```
( 'MU000000001', 'MUS00000001'),
( 'MU000000002', 'MUS00000002'),
( 'MU000000003', 'MUS00000003'),
( 'MU000000004', 'MUS00000004'),
( 'MU000000005', 'MUS00000005'),
( 'MU000000006', 'MUS00000006'),
( 'MU000000007', 'MUS00000007'),
( 'MU000000008', 'MUS00000008'),
( 'MU000000009', 'MUS00000009'),
( 'MU000000010', 'MUS00000010'),
( 'MU000000011', 'MUS00000011'),
( 'MU000000012', 'MUS00000012'),
( 'MU000000013', 'MUS00000013'),
( 'MU000000014', 'MUS00000014'),
( 'MU000000015', 'MUS00000015'),
( 'MU000000016', 'MUS00000016'),
( 'MU000000017', 'MUS00000017'),
( 'MU000000018', 'MUS00000018'),
( 'MU000000019', 'MUS00000019'),
( 'MU000000020', 'MUS00000020'),
( 'MU000000021', 'MUS00000021'),
( 'MU000000022', 'MUS00000022')
```

```
--END OF QUERY
```

```
--SELECT *
```

```
--FROM [ModelTeammate.Acquire]
```

```
--FROM [ModelTeammate.Club]
```

```
--FROM [ModelTeammate.Coach]
```

```
--FROM [ModelTeammate.League]
```

```
--FROM [ModelTeammate.Matches]
```

```
--FROM [ModelTeammate.Play]
--FROM [ModelTeammate.Player]
--FROM [ModelTeammate.Statistics]
```

```
--DELETE FROM [ModelTeammate.Player]
--where plrID IN ('MU00000001')
```

```
--What country provides best players based on Goals and Assists?
```

```
SELECT a.Country
FROM (
    SELECT
        s.sttplrId,
        (coalesce(s.sttGoals,0) + coalesce(s.sttAssist,0)) AS "Sum of Goals and
Assists",
        p.plrNation AS "Country"
    FROM [ModelTeammate.Statistics] s, [ModelTeammate.Player] p
    WHERE p.plrID = s.sttplrId) a
WHERE a.[Sum of Goals and Assists]=(
SELECT
MAX(s.sttGoals+s.sttAssist) FROM [ModelTeammate.Statistics] s)
```

```
--What country provides best players based on Goals and Assists, ranked by players
in descending order?
```

```
SELECT s.sttplrID AS 'Player ID', (s.sttGoals + s.sttAssist) AS 'Goals and
Assists',
p.plrFirstName, p.plrLastName, p.plrNation
FROM [ModelTeammate.Statistics] s, [ModelTeammate.Acquire] a,
[ModelTeammate.Player] p
WHERE ((s.sttGoals + s.sttAssist) > 0) AND (s.sttplrId = a.sttPlrID) AND (p.plrId =
a.plrID)
GROUP BY p.plrFirstName, p.plrLastName, s.sttplrId, s.sttGoals, s.sttAssist,
a.sttPlrID, p.plrNation
ORDER BY s.sttGoals + s.sttAssist DESC
```

```
-- Against what teams does Manchester United keep the most possession, in
descending order?
```

```
SELECT m.mtcPossession AS 'Match Possession Percentage', m.mtcVenue AS 'Match
Venue', m.mtcOpponent AS 'Opponent'
FROM [ModelTeammate.Matches] m
WHERE (m.mtcPossession != 0)
GROUP BY m.mtcPossession, m.mtcVenue, m.mtcOpponent
ORDER BY m.mtcPossession DESC
```

```
--What are the shot statistics of the top scorer on your team?
```

```
SELECT CONCAT(p.plrFirstName, ' ', p.plrLastName) AS 'Player Name' ,s.sttGoals,
s.sttShotPG,
s.sttShotOnTargPG, s.sttGoalPerShot, s.sttGoalPerShotOnTarg
FROM [ModelTeammate.Player] p, [ModelTeammate.Statistics] s,
[ModelTeammate.Acquire] a
WHERE s.sttGoals IN (
SELECT MAX (t.sttGoals)
FROM [ModelTeammate.Statistics] t
)
AND p.plrId = a.plrId
AND s.sttplrId = a.sttplrId
GROUP BY p.plrFirstName, p.plrLastName, s.sttGoals,
s.sttGoals, s.sttGoalPerShot, s.sttGoalPerShotOnTarg, s.sttShotPG,
s.sttShotOnTargPG
```

```
-- What players have the highest salary per position in descending order of player
salary?
SELECT p.plrFirstName AS 'Player First Name', p.plrLastName AS 'Player Last Name',
p.plrPosition AS 'Player Position', p.plrSalary AS 'Salary'
FROM [ModelTeammate.Player] p
WHERE p.plrSalary IN
    (SELECT MAX(plrSalary)
     FROM [ModelTeammate.Player]
     GROUP BY plrPosition)
ORDER BY plrSalary DESC;
```