NBA Dataset

Teams & Personnel:
NBA teams with details like arena, city, mascot, and conference
Players with personal information (nationality, position, height, weight)
Coaches with their win percentages and tenure
Referees with their experience and ratings
Agents and their agencies representing players.

Performance & Statistics:
Player season statistics (points, rebounds, assists, etc.)
Game statistics tracking team and player performance.
Player injury reports and games missed.
Season records including champions and MVPs.

Business Aspects:
Player contracts with salary information
Team affiliations and changes
Agent-player relationships
Season schedules and types (regular/playoffs)

Player	NBA_Team	Game_Stats	PlayerSeason_Stats	Contract	Coach	NBA_Season	Referee	Agent	Injury_Report	Draft	Social_Media
PlayerID	TeamID	GameID	PlayerID	ContractID	CoachID	SeasonID	RefID	AgentId	InjuryID	PlayerID	PlayerID
Fname	TeamName	PlayerTeamID	SeasonID	PlayerID	Fname	StartDate	Fname	Fname	PlayerID	Draft_Round	Followers
Lname	City	AwayTeamID	GameID	TeamID	Lname	EndDate	Lname	Lname	InjuryDate	Draft_Pick	Platform
DOB	Arena	Points	PS_Points	StartDate		SeasonType	Experience	Agency	ReturnDate	College	Verification_Status
Height	CoachID	FGA	PS_Rebounds	EndDate	WinPercentage	Champion	Rating	TotalClients	Description	TeamID	ContractID
Weight	Conference	Rebounds	PS_AST	Salary	CoachingTime	MVP	Games_Officiated		Games_Missed		
TeamID	Mascot	G_AST	PS_Steals	C_AgentID		Tot_Games					
Position	YearFounded	FGM	PS_Blocks								
Nationality		G_RefID	PS_FGA								
			Min_Played								

RED = FOREIGN KEY
YELLOW = PRIMARY KEY

Export Summary | Table SQL | Tables

```sql
DROP TABLE PlayerSeason_Stats;
DROP TABLE Injury_Report;
DROP TABLE Game_Stats;
DROP TABLE Social_Media;
DROP TABLE Contract;
DROP TABLE Draft;
DROP TABLE Player;
DROP TABLE Coach;
DROP TABLE Agent;
DROP TABLE Referee;
DROP TABLE NBA_Season;
DROP TABLE NBA_Team;




CREATE TABLE NBA_Team (
  TeamID VARCHAR(8),
  TeamName VARCHAR(50),
  City VARCHAR(50),
  Arena VARCHAR(100),
  CoachID VARCHAR(8),
  Conference VARCHAR(20),
  Mascot VARCHAR(50),
  YearFounded INT,
  PRIMARY KEY (TeamID)
);

insert into NBA_Team values('20001','Nuggets','Denver','Ball Arena','C001','Western','Rocky the
Mountain Lion','1967');
insert into NBA_Team values('20002','Bucks','Milwaukee','Fiserv Forum','C002','Eastern','Bango
the Buck','1968');
insert into NBA_Team values('20003','76ers','Philadelphia','Wells Fargo
Center','C003','Eastern','Franklin the Dog','1946');
insert into NBA_Team values('20004','Thunder','Oklahoma City','Paycom
Center','C004','Western','Rumble the Bison','2008');
insert into NBA_Team values('20005','Mavericks','Dallas','American Airlines
Center','C005','Western','Champ the Horse','1980');
```

```
insert into NBA_Team values('20006','Suns','Phoenix','Footprint Center','C006','Western','The
Gorilla','1968');
insert into NBA_Team values('20007','Warriors','Golden State','Chase
Center','C007','Western','Thunder the Warrior','1946');
insert into NBA_Team values('20008','Celtics','Boston','TD Garden','C008','Eastern','Lucky the
Leprechaun','1946');
insert into NBA_Team values('20009','Cavaliers','Cleveland','Rocket Mortgage
FieldHouse','C009','Eastern','Moondog','1970');
insert into NBA_Team values('20010','Suns','Phoenix','Footprint Center','C010','Western','The
Gorilla','1968');
insert into NBA_Team values('20011','Lakers','Los Angeles','Crypto.com
Arena','C011','Western','Chuck the Condor','1947');
insert into NBA_Team values('20012','Lakers','Los Angeles','Crypto.com
Arena','C012','Western','Chuck the Condor','1947');
insert into NBA_Team values('20013','Bucks','Milwaukee','Fiserv Forum','C013','Eastern','Bango
the Buck','1968');
insert into NBA_Team values('20014','Grizzlies','Memphis','FedExForum','C014','Western','Grizz
the Bear','1995');
insert into NBA_Team values('20015','Celtics','Boston','TD Garden','C015','Eastern','Lucky the
Leprechaun','1946');
insert into NBA_Team values('20016','Clippers','Los Angeles','Crypto.com
Arena','C016','Western','Chuck the Condor','1970');
insert into NBA_Team values('20017','Clippers','Los Angeles','Crypto.com
Arena','C017','Western','Chuck the Condor','1970');
insert into NBA_Team values('20018','Kings','Sacramento','Golden 1
Center','C018','Western','Slamson the Lion','1945');
insert into NBA_Team values('20019','Heat','Miami','Kaseya
Center','C019','Eastern','Burnie','1988');
insert into NBA_Team values('20020','Hawks','Atlanta','State Farm Arena','C020','Eastern','Harry
the Hawk','1946');
insert into NBA_Team values('20021','Kings','Sacramento','Golden 1
Center','C021','Western','Slamson the Lion','1945');
insert into NBA_Team values('20022','Timberwolves','Minnesota','Target
Center','C022','Western','Crunch the Wolf','1989');


CREATE TABLE Coach (
    CoachID VARCHAR(8),
    Fname VARCHAR(50),
    Lname VARCHAR(50),
    TeamID VARCHAR(8),
    WinPercentage DECIMAL(4,3),
    CoachingTime INT,
    PRIMARY KEY (CoachID),
```

```
    FOREIGN KEY (TeamID) REFERENCES NBA_Team(TeamID)
);

insert into Coach values('C001','Michael','Malone',20001,0.635,9);
insert into Coach values('C002','Doc','Rivers',20002,0.598,2);
insert into Coach values('C003','Nick','Nurse',20003,0.587,5);
insert into Coach values('C004','Mark','Daigneault',20004,0.512,4);
insert into Coach values('C005','Jason','Kidd',20005,0.568,3);
insert into Coach values('C006','Frank','Vogel',20006,0.548,8);
insert into Coach values('C007','Steve','Kerr',20007,0.682,9);
insert into Coach values('C008','Joe','Mazzulla',20008,0.598,2);
insert into Coach values('C009','J.B.','Bickerstaff',20009,0.524,6);
insert into Coach values('C010','Frank','Vogel',20010,0.621,5);
insert into Coach values('C011','Darvin','Ham',20011,0.505,2);
insert into Coach values('C012','Darvin','Ham',20012,0.534,3);
insert into Coach values('C013','Doc','Rivers',20013,0.585,24);
insert into Coach values('C014','Taylor','Jenkins',20014,0.548,5);
insert into Coach values('C015','Joe','Mazzulla',20015,0.589,15);
insert into Coach values('C016','Tyronn','Lue',20016,0.615,7);
insert into Coach values('C017','Tyronn','Lue',20017,0.495,2);
insert into Coach values('C018','Mike','Brown',20018,0.573,3);
insert into Coach values('C019','Erik','Spoelstra',20019,0.636,24);
insert into Coach values('C020','Quin','Snyder',20020,0.589,15);
insert into Coach values('C021','Mike','Brown',20021,0.585,9);
insert into Coach values('C022','Chris','Finch',20022,0.534,3);

CREATE TABLE Referee (
    RefID VARCHAR(8),
    Fname VARCHAR(50),
    Lname VARCHAR(50),
    Experience INT,
    Rating DECIMAL(4,2),
    Games_Officiated INT,
    PRIMARY KEY (RefID)
);

insert into Referee values('REF001','James','Williams',15,92.00,1250);
insert into Referee values('REF002','Scott','Foster',28,95.00,2300);
insert into Referee values('REF003','Lauren','Holtkamp',9,88.00,750);
insert into Referee values('REF004','Tony','Brothers',28,93.00,2150);
insert into Referee values('REF005','Zach','Zarba',20,94.00,1600);
insert into Referee values('REF006','Bill','Kennedy',25,91.00,1900);
```

```sql
CREATE TABLE Agent (
    AgentID VARCHAR(8),
    Fname VARCHAR(50),
    Lname VARCHAR(50),
    Agency VARCHAR(100),
    TotalClients INT,
    PRIMARY KEY (AgentID)
);

insert into Agent values('AG135','Rich','Paul','Klutch Sports Group',28);
insert into Agent values('AG247','Jeff','Schwartz','Excel Sports Management',35);
insert into Agent values('AG421','Leon','Rose','CAA Sports',42);
insert into Agent values('AG198','Mike','George','One Legacy Sports',18);
insert into Agent values('AG531','Bill','Duffy','BDA Sports Management',25);
insert into Agent values('AG364','Austin','Brown','Creative Artists Agency',45);
insert into Agent values('AG753','Sam','Goldfeder','ASM Sports',22);
insert into Agent values('AG642','Mark','Bartelstein','Priority Sports',30);
insert into Agent values('AG892','Aaron','Mintz','Independent Sports & Entertainment',27);
insert into Agent values('AG476','Andy','Miller','Roc Nation Sports',20);
insert into Agent values('AG521','Bernie','Lee','Octagon Basketball',32);
insert into Agent values('AG689','Todd','Ramasar','Landmark Sports',15);
insert into Agent values('AG924','Alex','Saratsis','Wasserman',38);




CREATE TABLE Player (
    PlayerID VARCHAR(8),
    Fname VARCHAR(50),
    Lname VARCHAR(50),
    DOB DATE,
    Height VARCHAR(10),
    Weight INT,
    TeamID VARCHAR(8),
    Position VARCHAR(20),
    Nationality VARCHAR(50),
    PRIMARY KEY (PlayerID),
    FOREIGN KEY (TeamID) REFERENCES NBA_Team(TeamID)
);

insert into Player
values('10001','Nikola','Jokic',TO_DATE('1995','YYYY'),'6''11',284,20001,'Center','Serbian');
insert into Player
values('10002','Giannis','Antetokounmpo',TO_DATE('1994','YYYY'),'6''11',242,20002,'Power
Forward','Greek');
```

insert into Player values('10003','Joel','Embiid',TO_DATE('1994','YYYY'),'7''0',280,20003,'Center','Cameroonian');
insert into Player values('10004','Shai','Gilgeous-Alexander',TO_DATE('1998','YYYY'),'6''6',195,20004,'Guard','Canadian');
insert into Player values('10005','Luka','Doncic',TO_DATE('1999','YYYY'),'6''7',230,20005,'Guard','Slovenian');
insert into Player values('10006','Kevin','Durant',TO_DATE('1988','YYYY'),'6''10',240,20006,'Forward','American');
insert into Player values('10007','Stephen','Curry',TO_DATE('1988','YYYY'),'6''2',185,20007,'Guard','American');
insert into Player values('10008','Jayson','Tatum',TO_DATE('1998','YYYY'),'6''8',210,20008,'Forward','American');
insert into Player values('10009','Donovan','Mitchell',TO_DATE('1996','YYYY'),'6''1',215,20009,'Guard','American');
insert into Player values('10010','Devin','Booker',TO_DATE('1996','YYYY'),'6''5',206,20010,'Guard','American');
insert into Player values('10011','Anthony','Davis',TO_DATE('1993','YYYY'),'6''10',253,20011,'Forward/Center','American');
insert into Player values('10012','LeBron','James',TO_DATE('1984','YYYY'),'6''9',250,20012,'Forward','American');
insert into Player values('10013','Damian','Lillard',TO_DATE('1990','YYYY'),'6''2',195,20013,'Guard','American');
insert into Player values('10014','Ja','Morant',TO_DATE('1999','YYYY'),'6''2',174,20014,'Guard','American');
insert into Player values('10015','Jaylen','Brown',TO_DATE('1996','YYYY'),'6''6',223,20015,'Guard/Forward','American');
insert into Player values('10016','Kawhi','Leonard',TO_DATE('1991','YYYY'),'6''7',225,20016,'Forward','American');
insert into Player values('10017','Paul','George',TO_DATE('1990','YYYY'),'6''8',220,20017,'Forward','American');
insert into Player values('10018','Domantas','Sabonis',TO_DATE('1996','YYYY'),'7''0',240,20018,'Forward/Center','Lithuanian');
insert into Player values('10019','Jimmy','Butler',TO_DATE('1989','YYYY'),'6''7',230,20019,'Forward','American');
insert into Player values('10020','Trae','Young',TO_DATE('1998','YYYY'),'6''1',164,20020,'Guard','American');
insert into Player values('10021','De''Aaron','Fox',TO_DATE('1997','YYYY'),'6''3',185,20021,'Guard','American');
insert into Player values('10022','Anthony','Edwards',TO_DATE('2001','YYYY'),'6''4',225,20022,'Guard','American');

```sql
CREATE TABLE Contract (
   ContractID VARCHAR(8),
   PlayerID VARCHAR(8),
   TeamID VARCHAR(8),
   StartDate DATE,
   EndDate DATE,
   Salary INT,
   C_AgentID VARCHAR(8),
   PRIMARY KEY (ContractID),
   FOREIGN KEY (PlayerID) REFERENCES Player(PlayerID),
   FOREIGN KEY (TeamID) REFERENCES NBA_Team(TeamID),
   FOREIGN KEY (C_AgentID) REFERENCES Agent(AgentID)
);

insert into Contract values('55-001','10001',20001,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),48500000,'AG135');
insert into Contract values('55-002','10002',20002,TO_DATE('2022-07-01','YYYY-MM-DD'),TO_DATE('2026-06-30','YYYY-MM-DD'),51915615,'AG247');
insert into Contract values('55-003','10003',20003,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2026-06-30','YYYY-MM-DD'),47649708,'AG421');
insert into Contract values('55-004','10004',20004,TO_DATE('2021-07-01','YYYY-MM-DD'),TO_DATE('2026-06-30','YYYY-MM-DD'),45640084,'AG198');
insert into Contract values('55-005','10005',20005,TO_DATE('2022-07-01','YYYY-MM-DD'),TO_DATE('2027-06-30','YYYY-MM-DD'),43037500,'AG531');
insert into Contract values('55-006','10006',20006,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2026-06-30','YYYY-MM-DD'),47600000,'AG364');
insert into Contract values('55-007','10007',20007,TO_DATE('2022-07-01','YYYY-MM-DD'),TO_DATE('2028-06-30','YYYY-MM-DD'),46550000,'AG753');
insert into Contract values('55-008','10008',20008,TO_DATE('2022-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),33500000,'AG642');
insert into Contract values('55-009','10009',20009,TO_DATE('2021-07-01','YYYY-MM-DD'),TO_DATE('2027-06-30','YYYY-MM-DD'),37100000,'AG892');
insert into Contract values('55-010','10010',20010,TO_DATE('2022-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),36000000,'AG476');
insert into Contract values('55-011','10011',20011,TO_DATE('2022-07-01','YYYY-MM-DD'),TO_DATE('2027-06-30','YYYY-MM-DD'),40207680,'AG521');
insert into Contract values('55-012','10012',20012,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2027-06-30','YYYY-MM-DD'),31650000,'AG689');
insert into Contract values('55-013','10013',20013,TO_DATE('2022-07-01','YYYY-MM-DD'),TO_DATE('2026-06-30','YYYY-MM-DD'),45640000,'AG924');
insert into Contract values('55-014','10014',20014,TO_DATE('2022-07-01','YYYY-MM-DD'),TO_DATE('2026-06-30','YYYY-MM-DD'),37653120,'AG135');
```

```
insert into Contract values('55-015','10015',20015,TO_DATE('2022-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),34800000,'AG247');
insert into Contract values('55-016','10016',20016,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),28500000,'AG421');
insert into Contract values('55-017','10017',20017,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),30500000,'AG198');
insert into Contract values('55-018','10018',20018,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),32450000,'AG531');
insert into Contract values('55-019','10019',20019,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),29750000,'AG364');
insert into Contract values('55-020','10020',20020,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),31450000,'AG753');
insert into Contract values('55-021','10021',20021,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),33250000,'AG642');
insert into Contract values('55-022','10022',20022,TO_DATE('2023-07-01','YYYY-MM-DD'),TO_DATE('2025-06-30','YYYY-MM-DD'),35150000,'AG892');

CREATE TABLE NBA_Season (
    SeasonID INT,
    StartDate DATE,
    EndDate DATE,
    SeasonType VARCHAR(20),
    Champion VARCHAR(50),
    MVP VARCHAR(50),
    Total_Games INT,
    PRIMARY KEY (SeasonID)
);

insert into NBA_Season values(24, TO_DATE('2023-10-24','YYYY-MM-DD'), TO_DATE('2024-04-14','YYYY-MM-DD'), 'Regular Season', 'Denver', 'Nikola', 82);
insert into NBA_Season values(23, TO_DATE('2022-10-18','YYYY-MM-DD'), TO_DATE('2023-04-09','YYYY-MM-DD'), 'Regular Season', 'Boston', 'Jayson', 82);
insert into NBA_Season values(22, TO_DATE('2021-10-19','YYYY-MM-DD'), TO_DATE('2022-04-10','YYYY-MM-DD'), 'Regular Season', 'Milwaukee', 'Giannis', 82);
insert into NBA_Season values(21, TO_DATE('2023-10-24','YYYY-MM-DD'), TO_DATE('2024-06-12','YYYY-MM-DD'), 'Playoffs', 'Denver', 'Nikola', 82);
insert into NBA_Season values(20, TO_DATE('2022-10-18','YYYY-MM-DD'), TO_DATE('2023-06-12','YYYY-MM-DD'), 'Playoffs', 'Boston', 'Jayson', 82);

CREATE TABLE Game_Stats (
    GameID VARCHAR(8),
    PlayerTeamID VARCHAR(8),
    AwayTeamID VARCHAR(8),
    Points INT,
```

```sql
    FGA INT,
    Rebounds INT,
    G_AST INT,
    FGM INT,
    G_REFID VARCHAR(8),
    PRIMARY KEY (GameID),
    FOREIGN KEY (PlayerTeamID) REFERENCES NBA_Team(TeamID),
    FOREIGN KEY (AwayTeamID) REFERENCES NBA_Team(TeamID),
    FOREIGN KEY (G_REFID) REFERENCES Referee(RefID)
);

insert into Game_Stats values('20240001','20001','20007',32,14,12,8,19,'REF001');
insert into Game_Stats values('20240002','20002','20008',35,13,14,9,23,'REF002');
insert into Game_Stats values('20240003','20003','20019',38,12,15,7,25,'REF003');
insert into Game_Stats values('20240004','20004','20005',29,6,12,8,22,'REF004');
insert into Game_Stats values('20240005','20005','20001',36,9,13,11,24,'REF005');
insert into Game_Stats values('20240006','20006','20011',28,7,11,6,19,'REF006');
insert into Game_Stats values('20240007','20007','20006',31,5,11,7,21,'REF001');
insert into Game_Stats values('20240008','20008','20002',25,8,10,9,21,'REF002');
insert into Game_Stats values('20240009','20009','20018',33,5,12,8,23,'REF003');
insert into Game_Stats values('20240010','20010','20020',28,4,11,7,20,'REF004');
insert into Game_Stats values('20240011','20011','20004',31,14,13,8,19,'REF005');
insert into Game_Stats values('20240012','20012','20022',24,8,9,6,17,'REF006');
insert into Game_Stats values('20240013','20013','20016',29,3,10,8,21,'REF001');
insert into Game_Stats values('20240014','20014','20009',27,6,11,9,22,'REF002');
insert into Game_Stats values('20240015','20015','20003',31,7,12,7,22,'REF003');
insert into Game_Stats values('20240016','20016','20007',26,7,10,8,19,'REF004');
insert into Game_Stats values('20240017','20017','20015',25,6,9,7,20,'REF005');
insert into Game_Stats values('20240018','20018','20014',21,15,9,6,14,'REF006');
insert into Game_Stats values('20240019','20019','20010',24,6,8,7,16,'REF001');
insert into Game_Stats values('20240020','20020','20005',32,4,11,9,23,'REF002');
insert into Game_Stats values('20240021','20021','20012',29,5,12,8,21,'REF003');
insert into Game_Stats values('20240022','20022','20001',28,6,11,7,23,'REF004');


CREATE TABLE Injury_Report (
    InjuryID VARCHAR(8),
    PlayerID VARCHAR(8),
    InjuryDate DATE,
    ReturnDate DATE,
    InjuryType VARCHAR(50),
    Description VARCHAR(100),
    GamesMissed INT,
```

```
    PRIMARY KEY (InjuryID),
    FOREIGN KEY (PlayerID) REFERENCES Player(PlayerID)
);

insert into Injury_Report values('INJ001','10003',TO_DATE('2023-12-15','YYYY-MM-
DD'),TO_DATE('2024-01-20','YYYY-MM-DD'),'Knee Sprain','Andrews',18);
insert into Injury_Report values('INJ002','10005',TO_DATE('2023-11-24','YYYY-MM-
DD'),TO_DATE('2023-12-12','YYYY-MM-DD'),'Ankle Sprain','Thompson',6);
insert into Injury_Report values('INJ003','10015',TO_DATE('2024-01-05','YYYY-MM-
DD'),TO_DATE('2024-01-15','YYYY-MM-DD'),'Knee Sprain','Andrews',4);
insert into Injury_Report values('INJ004','10022',TO_DATE('2024-02-14','YYYY-MM-
DD'),TO_DATE('2024-02-20','YYYY-MM-DD'),'Load Management','Cohen',2);
insert into Injury_Report values('INJ005','10008',TO_DATE('2024-03-02','YYYY-MM-
DD'),TO_DATE('2024-03-25','YYYY-MM-DD'),'Ankle Strain','Rodriguez',8);
insert into Injury_Report values('INJ006','10010',TO_DATE('2023-12-30','YYYY-MM-
DD'),TO_DATE('2024-01-08','YYYY-MM-DD'),'Load Management','Smith',4);

CREATE TABLE PlayerSeason_Stats (
    PlayerID VARCHAR(8),
    SeasonID INT,
    GameID VARCHAR(8),
    PS_Points DECIMAL(4,1),
    PS_Rebounds DECIMAL(4,1),
    PS_Assists DECIMAL(4,1),
    PS_Steals DECIMAL(4,1),
    PS_Blocks DECIMAL(4,1),
    PS_FGM DECIMAL(4,1),
    PS_FGA DECIMAL(4,1),
    Min_Played DECIMAL(4,1),
    PRIMARY KEY (PlayerID, SeasonID),
    FOREIGN KEY (PlayerID) REFERENCES Player(PlayerID),
    FOREIGN KEY (SeasonID) REFERENCES NBA_Season(SeasonID)
);

insert into PlayerSeason_Stats
values('10001',24,'20240001',26.4,12.3,9.2,1.3,0.9,10.2,16.8,33.5);
insert into PlayerSeason_Stats
values('10002',23,'20240002',30.7,11.6,6.4,1.2,1.1,11.5,20.2,34.2);
insert into PlayerSeason_Stats
values('10003',22,'20240003',35.1,11.8,5.9,1.1,1.7,12.1,22.1,33.8);
insert into PlayerSeason_Stats
values('10004',21,'20240004',31.4,5.5,6.2,2.0,0.8,11.3,20.5,35.1);
insert into PlayerSeason_Stats
values('10005',20,'20240005',33.9,8.9,9.8,1.4,0.5,11.8,22.9,36.2);
```

insert into PlayerSeason_Stats
values('10006',24,'20240006',28.3,6.7,5.1,0.7,1.2,10.2,18.4,33.7);
insert into PlayerSeason_Stats values('10007',23,'20240007',29.4,4.3,6.3,0.9,0.2,9.8,19.8,32.9);
insert into PlayerSeason_Stats values('10008',22,'20240008',27.9,8.9,4.7,1.0,0.7,9.7,19.9,34.8);
insert into PlayerSeason_Stats values('10009',21,'20240009',28.3,4.4,6.1,1.5,0.4,9.9,20.1,35.6);
insert into PlayerSeason_Stats values('10010',20,'20240010',27.1,4.5,6.9,1.1,0.3,9.6,19.2,34.2);
insert into PlayerSeason_Stats
values('10011',24,'20240011',24.5,12.5,3.5,1.1,2.3,9.2,16.8,33.9);
insert into PlayerSeason_Stats values('10012',23,'20240012',25.8,7.3,8.1,1.2,0.9,9.8,18.7,35.4);
insert into PlayerSeason_Stats values('10013',22,'20240013',28.2,4.4,7.1,1.0,0.3,8.9,19.4,34.8);
insert into PlayerSeason_Stats values('10014',21,'20240014',26.2,5.9,8.1,1.1,0.3,9.6,19.9,33.2);
insert into PlayerSeason_Stats values('10015',20,'20240015',26.8,6.7,3.5,1.1,0.3,9.9,19.8,34.7);
insert into PlayerSeason_Stats values('10016',24,'20240016',25.2,6.3,3.9,1.4,0.5,9.4,17.8,32.6);
insert into PlayerSeason_Stats values('10017',23,'20240017',24.8,5.9,5.1,1.5,0.4,8.8,18.6,33.8);
insert into PlayerSeason_Stats
values('10018',22,'20240018',19.4,13.2,7.4,0.8,0.5,7.8,12.7,34.5);
insert into PlayerSeason_Stats values('10019',21,'20240019',22.9,5.9,5.3,1.3,0.4,7.9,14.8,33.7);
insert into PlayerSeason_Stats
values('10020',20,'20240020',27.5,3.0,10.2,1.1,0.2,8.8,19.9,35.2);
insert into PlayerSeason_Stats
values('10021',24,'20240021',27.1,4.3,6.4,1.5,0.3,10.1,19.8,34.6);
insert into PlayerSeason_Stats values('10022',23,'20240022',25.9,5.8,5.1,1.3,0.7,9.3,20.2,33.4);

CREATE TABLE Draft (
    PlayerID VARCHAR(8),
    Draft_Round INT,
    Draft_Pick INT,
    College VARCHAR(100),
    TeamID VARCHAR(8),
    PRIMARY KEY (PlayerID),
    FOREIGN KEY (PlayerID) REFERENCES Player(PlayerID),
    FOREIGN KEY (TeamID) REFERENCES NBA_Team(TeamID)
);

insert into Draft values('10001',2,41,'Mega Basket (Serbia)','20001');
insert into Draft values('10002',1,15,'Filathlitikos (Greece)','20002');
insert into Draft values('10003',1,3,'Kansas','20003');
insert into Draft values('10004',1,11,'Kentucky','20004');
insert into Draft values('10005',1,3,'Real Madrid(Spain)','20005');
insert into Draft values('10006',1,2,'Texas','20006');
insert into Draft values('10007',1,7,'Davidson','20007');
insert into Draft values('10008',1,3,'Duke','20008');
insert into Draft values('10009',1,13,'Louisville','20009');

```
insert into Draft values('10010',1,13,'Kentucky','20010');
insert into Draft values('10011',1,1,'Kentucky','20011');
insert into Draft values('10012',1,1,'St. Vincent-St. Mary','20012');
insert into Draft values('10013',1,6,'Weber State','20013');
insert into Draft values('10014',1,2,'Murray State','20014');
insert into Draft values('10015',1,3,'California','20015');


CREATE TABLE Social_Media (
    PlayerID VARCHAR(8),
    Followers VARCHAR(20),
    Platform VARCHAR(50),
    Verification_Status VARCHAR(20),
    ContractID VARCHAR(8),
    PRIMARY KEY (PlayerID, Platform),
    FOREIGN KEY (PlayerID) REFERENCES Player(PlayerID),
    FOREIGN KEY (ContractID) REFERENCES Contract(ContractID)
);

insert into Social_Media values('10001','23M','Instagram','Unactive','55-001');
insert into Social_Media values('10002','28.3M','Instagram','Active','55-002');
insert into Social_Media values('10003','12M','Instagram','Active','55-003');
insert into Social_Media values('10004','9M','Twitter','Active','55-004');
insert into Social_Media values('10005','30M','Instagram','Active','55-005');
insert into Social_Media values('10006','15M','Instagram','Unactive','55-006');
insert into Social_Media values('10007','51M','Twitter','Active','55-007');
insert into Social_Media values('10008','19M','Instagram','Unactive','55-008');
insert into Social_Media values('10009','21M','Instagram','Unactive','55-009');
insert into Social_Media values('10010','21M','Instagram','Active','55-010');
insert into Social_Media values('10011','41M','Twitter','Active','55-011');
insert into Social_Media values('10012','154M','Instagram','Active','55-012');
insert into Social_Media values('10013','59M','Twitter','Active','55-013');
insert into Social_Media values('10014','14M','Instagram','Active','55-014');
insert into Social_Media values('10015','3M','Instagram','Active','55-015');
```

1. Based off the tables write a query that contains players who earned more than 46000000 in salary, and did not have an injury. List the PlayerID, Player name, salary, and the team that player played for. (Minus)

PLAYERID	PLAYER_NAME	SALARY	TEAMNAME
10002	Giannis Antetokounmpo	51915615	Bucks
10001	Nikola Jokic	48500000	Nuggets
10006	Kevin Durant	47600000	Suns
10007	Stephen Curry	46550000	Warriors

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SELECT p.PlayerID, p.Fname,
p.Lname,c.Salary,t.TeamName
FROM Player p, Contract c, NBA_Team t
WHERE p.PlayerID = c.PlayerID
AND p.TeamID = t.TeamID
AND c.Salary > 46000000

MINUS

SELECT p.PlayerID,
       p.Fname,
       p.Lname,
       c.Salary,
       t.TeamName
FROM Player p, Contract c, NBA_Team t, Injury_Report ir
WHERE p.PlayerID = c.PlayerID
AND p.TeamID = t.TeamID
AND p.PlayerID = ir.PlayerID
AND c.Salary > 46000000

ORDER BY Salary DESC;

2. What's the average salary by nationality, only for nationalities with more than 2 players? List their first name last name salary, teamname, agent name, and agnecy name. (Div)

NATIONALITY	FNAME	LNAME	SALARY	TEAMNAME	AGENT_FNAME	AGENT_LNAME	AGENCY
American	Kevin	Durant	47600000	Suns	Austin	Brown	Creative Artists Agency
American	Stephen	Curry	46550000	Warriors	Sam	Goldfeder	ASM Sports
American	Damian	Lillard	45640000	Bucks	Alex	Saratsis	Wasserman
American	Anthony	Davis	40207680	Lakers	Bernie	Lee	Octagon Basketball
American	Ja	Morant	37653120	Grizzlies	Rich	Paul	Klutch Sports Group
American	Donovan	Mitchell	37100000	Cavaliers	Aaron	Mintz	Independent Sports & Entertainment
American	Devin	Booker	36000000	Suns	Andy	Miller	Roc Nation Sports
American	Anthony	Edwards	35150000	Timberwolves	Aaron	Mintz	Independent Sports & Entertainment
American	Jaylen	Brown	34800000	Celtics	Jeff	Schwartz	Excel Sports Management
American	Jayson	Tatum	33500000	Celtics	Mark	Bartelstein	Priority Sports
American	De'Aaron	Fox	33250000	Kings	Mark	Bartelstein	Priority Sports
American	LeBron	James	31650000	Lakers	Todd	Ramasar	Landmark Sports
American	Trae	Young	31450000	Hawks	Sam	Goldfeder	ASM Sports

SELECT p.Nationality,p.Fname,p.Lname,c.Salary,
t.TeamName,a.Fname as Agent_Fname,
a.Lname as Agent_Lname, a.Agency
FROM Player p, Contract c, NBA_Team t, Agent a
WHERE p.PlayerID = c.PlayerID
AND p.TeamID = t.TeamID
AND c.C_AgentID = a.AgentID
AND (SELECT COUNT(PlayerID)
    FROM Player p2
    WHERE p2.Nationality = p.Nationality) > 2
ORDER BY c.Salary DESC;

3. Based off the table and the information provided, List the coaches who have a win percentage higher than 60% indicate them as a 'High Performer' and coaches who have a win percentage below 50% as 'Needs Improvement'

FNAME	LNAME	TEAMID	WINPERCENTAGE	PERFORMANCE_LEVEL
Steve	Kerr	20007	.682	High Performer
Erik	Spoelstra	20019	.636	High Performer
Michael	Malone	20001	.635	High Performer
Frank	Vogel	20010	.621	High Performer
Tyronn	Lue	20016	.615	High Performer
Tyronn	Lue	20017	.495	Needs Improvement

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6 rows selected.

SELECT Fname,Lname, TeamID, WinPercentage,
'High Performer' as Performance_Level
FROM Coach
WHERE WinPercentage > 0.600

UNION

SELECT Fname,Lname,TeamID,WinPercentage,
'Needs Improvement' as Performance_Level
FROM Coach
WHERE WinPercentage < 0.500
ORDER BY WinPercentage DESC;

4. Based off the tables list the following. Show the players first name, last name, Points, Rebounds, Assist also keep in mind that the players must have a salary less than 38000000.(Minus)

FNAME	LNAME	PS_POINTS	PS_REBOUNDS	PS_ASSISTS	SALARY
Ja	Morant	26.2	5.9	8.1	37653120
Donovan	Mitchell	28.3	4.4	6.1	37100000
Devin	Booker	27.1	4.5	6.9	36000000
Anthony	Edwards	25.9	5.8	5.1	35150000
Jaylen	Brown	26.8	6.7	3.5	34800000
Jayson	Tatum	27.9	8.9	4.7	33500000
De'Aaron	Fox	27.1	4.3	6.4	33250000
Domantas	Sabonis	19.4	13.2	7.4	32450000
LeBron	James	25.8	7.3	8.1	31650000
Trae	Young	27.5	3	10.2	31450000
Paul	George	24.8	5.9	5.1	30500000
Jimmy	Butler	22.9	5.9	5.3	29750000
Kawhi	Leonard	25.2	6.3	3.9	28500000

SELECT p.Fname, p.Lname, ps.PS_Points, ps.PS_Rebounds, ps.PS_Assists, c.Salary
FROM Player p, PlayerSeason_Stats ps, Contract c
WHERE p.PlayerID = ps.PlayerID
AND p.PlayerID = c.PlayerID
MINUS
SELECT p.Fname, p.Lname, ps.PS_Points, ps.PS_Rebounds, ps.PS_Assists, c.Salary
FROM Player p, PlayerSeason_Stats ps, Contract c
WHERE p.PlayerID = ps.PlayerID
AND p.PlayerID = c.PlayerID
AND c.Salary > 38000000
ORDER BY Salary DESC;

5. For each player who average more than 30 points in each other conferences, list their first name, last name, team name, points, rebounds, and assists, and conference. The results should be ordered by points scored in descending order to easily identify the top scorers in each conference. (Union)

CONFERENCE	FNAME	LNAME	TEAMNAME	PS_POINTS	PS_REBOUNDS	PS_ASSISTS
Eastern	Joel	Embiid	76ers	35.1	11.8	5.9
Western	Luka	Doncic	Mavericks	33.9	8.9	9.8
Western	Shai	Gilgeous-Alexander	Thunder	31.4	5.5	6.2
Eastern	Giannis	Antetokounmpo	Bucks	30.7	11.6	6.4

SELECT 'Eastern' as Conference,
p.Fname, p.Lname, t.TeamName, ps.PS_Points, ps.PS_Rebounds, ps.PS_Assists
FROM Player p, NBA_Team t, PlayerSeason_Stats ps
WHERE p.TeamID = t.TeamID
AND p.PlayerID = ps.PlayerID
AND t.Conference = 'Eastern'
AND ps.PS_Points > 30

UNION

SELECT 'Western' as Conference,
p.Fname, p.Lname, t.TeamName, ps.PS_Points, ps.PS_Rebounds, ps.PS_Assists
FROM Player p, NBA_Team t, PlayerSeason_Stats ps
WHERE p.TeamID = t.TeamID
AND p.PlayerID = ps.PlayerID
AND t.Conference = 'Western'
AND ps.PS_Points > 30
ORDER BY PS_Points DESC;

6. Based off the table and information provided, list the referees who have more than 1000 games officiated and do not average a 93 rating. List the refid, fname, lname, games officiated, and rating. (DIV)

REFID	FNAME	LNAME	GAMES_OFFICIATED	RATING
REF006	Bill	Kennedy	1900	91
REF001	James	Williams	1250	92

SELECT RefID, Fname, Lname, Games_Officiated, Rating
FROM Referee R1
WHERE EXISTS (
   SELECT 1
   FROM Referee R2
   WHERE R2.RefID = R1.RefID
   AND R2.Games_Officiated > 1000
   AND R2.Rating < 93
);

7. Find players who, whenever they played against Western Conference teams, scored greater than 25 points, 10 rebounds, 5 assists in a single game. List the players first name, last name, position, and playerID. (DIV)

FNAME	LNAME	POSITION	PLAYERID
Nikola	Jokic	Center	10001
Giannis	Antetokounmpo	Power Forward	10002
Joel	Embiid	Center	10003
Shai	Gilgeous—Alexander	Guard	10004
Luka	Doncic	Guard	10005
Kevin	Durant	Forward	10006
Jayson	Tatum	Forward	10008
Donovan	Mitchell	Guard	10009
Devin	Booker	Guard	10010
Anthony	Davis	Forward/Center	10011
Trae	Young	Guard	10020
De'Aaron	Fox	Guard	10021

```
SELECT  p.Fname, p.Lname, position, PlayerID
FROM Player p
WHERE NOT EXISTS (
    SELECT t.TeamID
    FROM NBA_Team t
    WHERE t.Conference = 'Western'
    AND EXISTS (
        SELECT g.GameID
        FROM Game_Stats g
        WHERE (g.PlayerTeamID = p.TeamID OR g.AwayTeamID = p.TeamID)
        AND (g.PlayerTeamID = t.TeamID OR g.AwayTeamID = t.TeamID)
    )
    AND NOT EXISTS (
        SELECT g.GameID
        FROM Game_Stats g
        WHERE (g.PlayerTeamID = p.TeamID OR g.AwayTeamID = p.TeamID)
        AND (g.PlayerTeamID = t.TeamID OR g.AwayTeamID = t.TeamID)
        AND g.Points > 25
        AND g.Rebounds > 10
        AND g.G_AST > 5
    )
);
```

8. Find all referees who have officiated all games where the Golden State Warriors played in, list the referees name rating and experience as well. (DIV)

FNAME	LNAME	RATING	EXPERIENCE
James	Williams	92	15

```
SELECT r.Fname, r.Lname, rating, experience
FROM Referee r
WHERE NOT EXISTS (
    SELECT gs.GameID
    FROM Game_Stats gs
    WHERE gs.PlayerTeamID IN (SELECT TeamID FROM NBA_Team WHERE TeamName =
'Warriors')
    AND NOT EXISTS (
```

```
    SELECT gs2.G_REFID
    FROM Game_Stats gs2
    WHERE gs2.G_REFID = r.RefID
    AND gs2.GameID = gs.GameID
  )
);
```

9. Find all players and their draft information (round and pick number) who have more than 20 million social media followers BUT were not selected in the first round of the NBA draft. List their names, college, draft round, and draft pick. (MINUS)

PLAYERID	FNAME	LNAME	DRAFT_ROUND	DRAFT_PICK	COLLEGE
10001	Nikola	Jokic	2	41	Mega Basket (Serbia)

```
SELECT p.PlayerID, p.Fname, p.Lname, d.Draft_Round, d.Draft_Pick, College
FROM Player p, Draft d
WHERE p.PlayerID = d.PlayerID
AND p.PlayerID IN (
    SELECT PlayerID
    FROM Social_Media
    WHERE Followers > '20M'
)
MINUS
SELECT p.PlayerID, p.Fname, p.Lname, d.Draft_Round, d.Draft_Pick, College
FROM Player p, Draft d
WHERE p.PlayerID = d.PlayerID
AND d.Draft_Round = 1;
```

10. Create a list of notable players from this season who have either experienced significant setbacks (missing more than 5 games due to injury) OR achieved strong performances (recorded double-doubles with more than 10 points and rebounds). List

each player's name, their achievement type, their meaningful statistic (either games missed, or points scored), their current season's points and rebounds per game, and their team name.
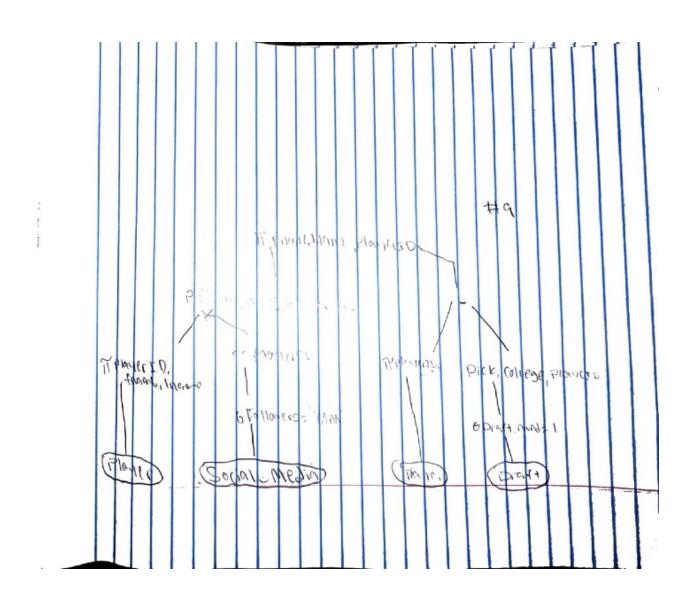
FNAME	LNAME	STATUS	PS_POINTS	PS_REBOUNDS	TEAMNAME
Anthony	Davis	Double—Double	24.5	12.5	Lakers
Domantas	Sabonis	Double—Double	19.4	13.2	Kings
Giannis	Antetokounmpo	Double—Double	30.7	11.6	Bucks
Jayson	Tatum	Injury History	27.9	8.9	Celtics
Joel	Embiid	Double—Double	35.1	11.8	76ers
Joel	Embiid	Injury History	35.1	11.8	76ers
Luka	Doncic	Injury History	33.9	8.9	Mavericks
Nikola	Jokic	Double—Double	26.4	12.3	Nuggets

SELECT p.Fname, p.Lname,
'Injury History' as Status,
ps.PS_Points,ps.PS_Rebounds,t.TeamName
FROM Player p, Injury_Report ir, PlayerSeason_Stats ps, NBA_Team t
WHERE p.PlayerID = ir.PlayerID
AND p.PlayerID = ps.PlayerID
AND p.TeamID = t.TeamID
AND ir.GamesMissed > 5

UNION

SELECT p.Fname, p.Lname,
'Double-Double' as Status,
ps.PS_Points,ps.PS_Rebounds,t.TeamName
FROM Player p, PlayerSeason_Stats ps, NBA_Team t
WHERE p.PlayerID = ps.PlayerID
AND p.TeamID = t.TeamID
AND ps.PS_Points > 10
AND ps.PS_Rebounds > 10

Query's 5,7,9,10

#10