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)

A screenshot of a computer

Description automatically generated

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);

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');

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,

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');

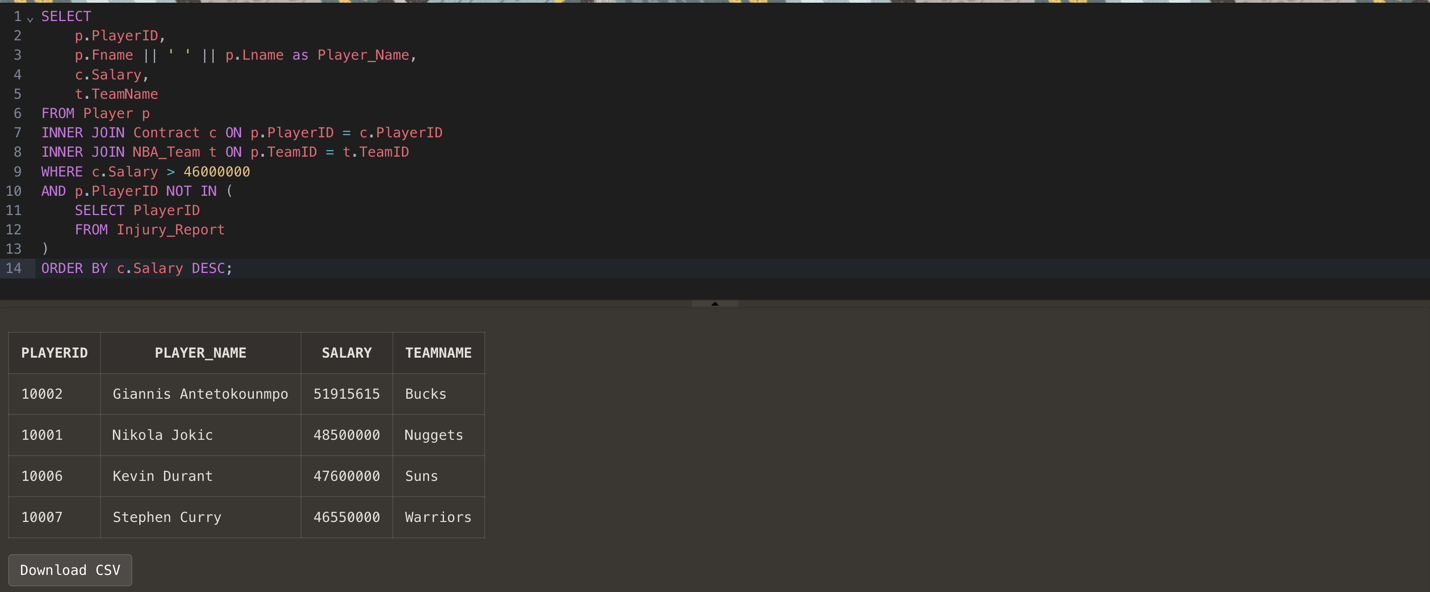
insert into Social\_Media values('10012','154M','Instagram','Active','55-012');

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)



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)

A screenshot of a computer

Description automatically generated

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’

A screenshot of a computer

Description automatically generated

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)

A table with numbers and letters

Description automatically generated

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)

A screenshot of a black screen

Description automatically generated

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)

A screenshot of a video game

Description automatically generated

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)

A screenshot of a black screen

Description automatically generated

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)

A screenshot of a black screen

Description automatically generated

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)

A black background with white text

Description automatically generated

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.A screenshot of a black screen

Description automatically generated

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

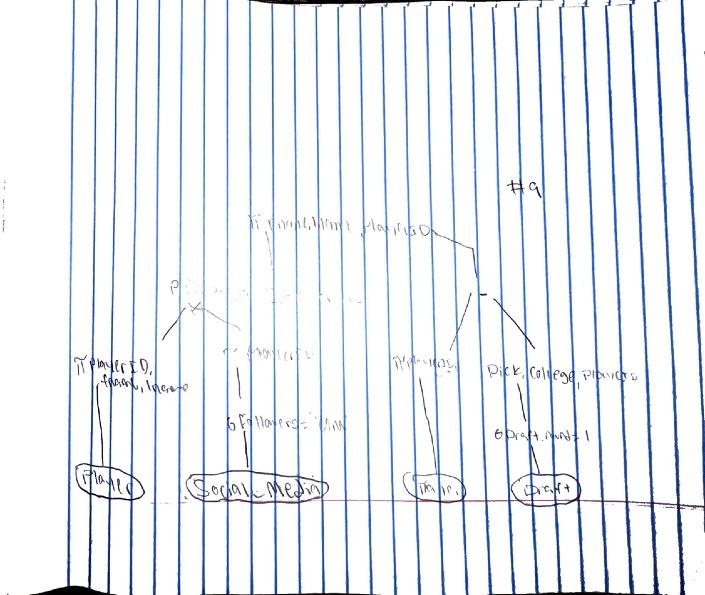
WHERE p.PlayerID = ps.PlayerID

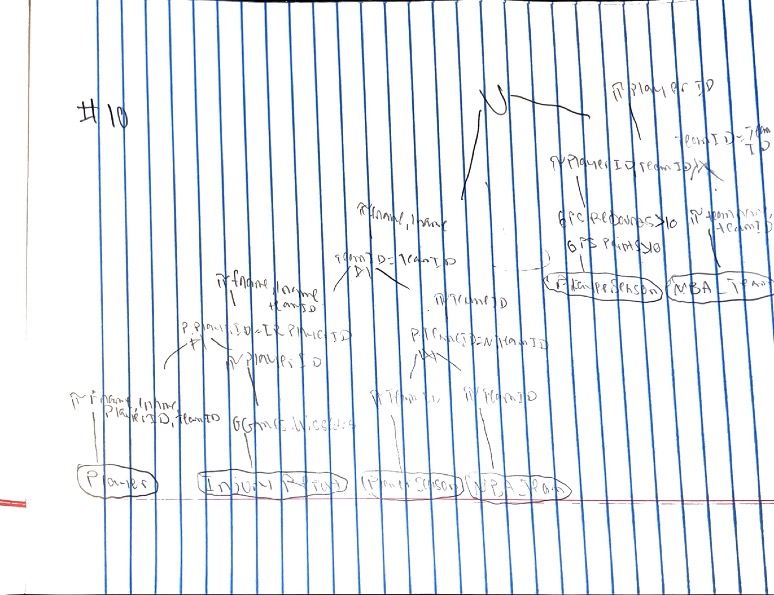
AND p.TeamID = t.TeamID

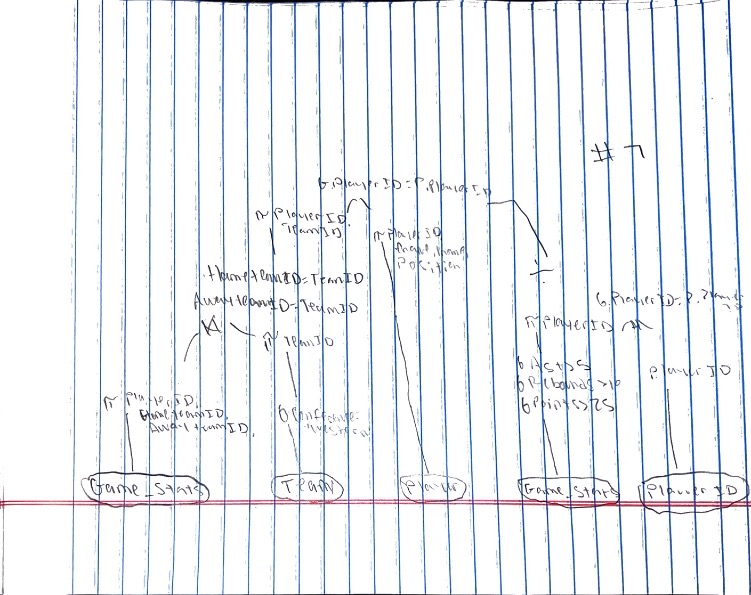
AND ps.PS\_Points > 10

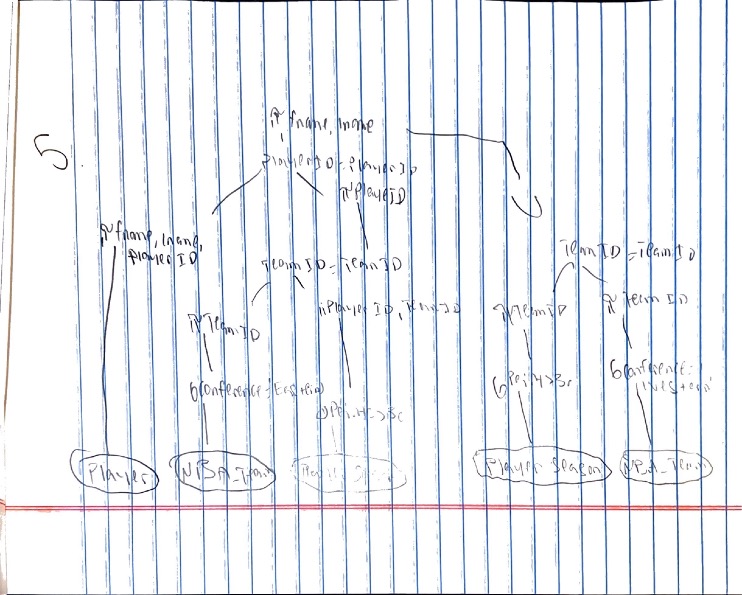
AND ps.PS\_Rebounds > 10

**Query’s 5,7,9,10**

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