CS482/502 Database Management Systems I

Assignment: SQL

Assume that you are given the following relational schemas for the basketball team at NMSU.

- Player (ID: integer, Name: varchar(64), Birthday: date, Address: varchar(128), Email: varchar(32), PhoneNumber: char(10), PlayPos: varchar(16))

- Manager (ID: integer, LoginID: varchar(16), Name: varchar(64), Password: varchar(8), Birthday: date, Address: varchar(128), Email: varchar(32), PhoneNumber: char(10))

- ManagerCertificate (ManagerID: integer, CertificateId: integer, Certificate: blob)
    - Foreign key: ManagerID references Manager(ID)

- Doctor (Email: varchar(32), Name: varchar(64), PhoneNumber: char(10))

- TakeExam (PlayerID: integer, DocEmail: varchar(32), TestDate: date, TestResult: varchar(256))
    - Foreign key: PlayerID references Player(ID)
    - Foreign key: DocEmail references Doctor(Email)

- Stats (PlayerID: integer, Year: char(4), TotalPoints: integer, ASPG: integer)
    - Foreign key: PlayerID references Player(ID)

- Training (TrainingName: varchar(256), Instruction: varchar(256), TimePeriodInHour: integer)

- AssignTraining (PlayerID: integer, ManagerID: integer, TrainingName: varchar(256))
    - Foreign key: PlayerID references Player(ID)
    - Foreign key: ManagerID references Manager(ID)
    - Foreign key: TrainingName references Training(TrainingName)

- Game (GameID: integer, Date: date, Result: varchar(16), PlayingVenue: varchar(256), OpponentTeam: varchar(32))

- Play (PlayerID: integer, GameID: integer)
    - Foreign key: PlayerID references Player(ID)
    - Foreign key: GameID references Game(GameID)

1.) Show the names and ID's of all players whose play position is "center".

2.) Show the total points that player "Pistol Pete" has scored each year (assume there is only one Pistol Pete).

3.) Show the names and emails of every manager who has exactly 2 distinct certificates.

4.) Show the names of every player who has played a game at "The Pit" and won (Result = "win"), in descending order of age

5.) Show all the information of Doctors who have given exams (use an inner join)

6.) Find the games that players named "Pistol Pete" and "Lobo Louie" have played in, using set operators (UNION, INTERSECT, MINUS, etc…). Show the game's date, venue, and result

7.) Perform the same query as problem 6, without using set operators (UNION, INTERSECT, MINUS, etc…)

8.) Find the Names and IDs of players who have scored more points than the average player

9.) Show all players that were born on the same day (I.E. If Bob and Joe were both born on 12/25/95, and Jim and Steve were both born on 7/4/94, show the names and the birthday they share)

10.)   Find the total number of points the Aggie basketball team scored in 2016