

Assignment-1

CS482/502 Database Management Systems I

Spring 2021

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)

Write an **SQL Query** for each of the following.

- 1.) Show the names, ID's and emails of all players whose play position is "Middle".
- 2.) Show the total points that player "Lobo Louie" has scored each year (assume there is only one Lobo Louie).
- 3.) Show the names and phone numbers of every manager who has exactly 2 distinct certificates (certificate names).
- 4.) Show the names of every player who has played a game at "PanAm" and lost (Result = "lose"), in ascending order of age.
- 5.) Show all the information of players who have taken exams.
- 6.) Find the games that players named "Lobo Louie" and "yoyo" have played in. Show the game's date, venue, and result.
- 7.) Find the games that players named "yoyo" have played in from 2016-2017. Show the game's date, venue, and result.
- 8.) Find the Names and IDs of players who have scored points less than the average player.
- 9.) Show all players that have the same play position.
- 10.) Find the total number of points the Aggie basketball team scored in 2012.