

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, ID's and emails of all players whose play position is "Middle".

Name	ID	Email
pistol pete	101	pistolpete@gmail.com
Lobo Louie	102	LoboLouie@gmail.com
yoyo	103	yoyo@gmail.com
jack	105	jack@gmail.com

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

Year	TotalPoints
2012	100
2014	50
2013	200

3.) Show the names and phone numbers of every manager who has exactly 2 distinct certificates (certificate names).

Name	PhoneNumber
Alice	7845964712

4.) Show the names of every player who has played a game at “PanAm” and lost (Result = “lose”), in ascending order of age.

Name
pistol pete
Lobo Louie

5.) Show all the information of players who have taken exams.

ID	Name	Birthday	Address	Email	PhoneNumber	PlayPos	PlayerID	DocEmail	TestDate	TestResult
101	pistol pete	1980-02-01	1990 S Espina	pistolpete@gmail.com	1587548415	Middle	101	paul@gmail.com	2018-10-20	positive
101	pistol pete	1980-02-01	1990 S Espina	pistolpete@gmail.com	1587548415	Middle	101	mike@gmail.com	2016-10-10	negative
102	Lobo Louie	1989-08-18	100 Vista del monte	LoboLouie@gmail.com	5128479856	Middle	102	paul@gmail.com	2017-12-10	positive
103	yoyo	1993-11-06	2422 S ESpina ST	yoyo@gmail.com	5199688745	Middle	103	aron@gmail.com	2016-09-25	negative

6.) Find the games that players named “Lobo Louie” and “yoyo” have played in. Show the game’s date, venue, and result.

Date	PlayingVenue	Result
2016/11/05	The Pit	win

7.) Find the games that players named “yoyo” have played in from 2016-2017. Show the game’s date, venue, and result.

Date	PlayingVenue	Result
2016/11/05	The Pit	win
2017-12-28	The pit	win

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

Name	ID
pistol pete	101
pistol pete	101
pistol pete	101
pistol pete	101
Lobo Louie	102
Lobo Louie	102
Lobo Louie	102

9.) Show all players that have the same play position.

Name	Name	PlayPos
jack	pistol pete	Middle
yoyo	pistol pete	Middle
Lobo Louie	pistol pete	Middle
jack	Lobo Louie	Middle
yoyo	Lobo Louie	Middle
pistol pete	Lobo Louie	Middle
jack	yoyo	Middle
Lobo Louie	yoyo	Middle
pistol pete	yoyo	Middle
yoyo	jack	Middle
Lobo Louie	jack	Middle
pistol pete	jack	Middle

10.) Find the total number of points the Aggie basketball team scored in 2012.

SUM(TotalPoints)
700