

EXERCISE 1

Sports Craft Company has organized tournaments in multiple individual sports and invited top ranked players to play. Each tournament comprises of multiple matches in knock out format. Each match is played between two players.

Problem Statement: Create the Player table as per information provided below:

Column Name	Data Type	Constraint	Description
PId	INTEGER	PRIMARY KEY	Unique player Id is mandatory for every player
PName	VARCHAR2(20)	NOT NULL	Player Name
Ranking	INTEGER		Player's ranking

QUERY

```
1 CREATE TABLE player(  
2 PId INT PRIMARY KEY,  
3 PName VARCHAR2(20) NOT NULL,  
4 Ranking INT  
5 );
```

Verify

Submit

OUTPUT

NAME	Null?	TYPE
PID	NOT NULL	NUMBER
PNAME	NOT NULL	VARCHAR2(20)
RANKING		NUMBER

Table created.

EXERCISE 2

Create the Tournament table as per information below:

Column Name	Data Type	Constraint	Description
Tid	INTEGER	PRIMARY KEY	Unique tournament id for every tournament
TName	VARCHAR2(30)	NOT NULL	Tournament Name
StartDt	DATE	NOT NULL	Start Date of the tournament
EndDt	DATE	NOT NULL	End Date of the tournament
Prize	INTEGER	NOT NULL	Prize to be won in the tournament

QUERY

Write your query here

1

CREATE TABLE Tournament(

2

Tid INTEGER PRIMARY KEY,

3

TName VARCHAR2(30) NOT NULL,

4

StartDt DATE NOT NULL,

5

EndDt DATE NOT NULL,

6

Prize INTEGER NOT NULL

7

);

Verify

Submit

OUTPUT

Query Result

NAME	NULL?	TYPE
TID	NOT NULL	NUMBER
TNAME	NOT NULL	VARCHAR2(30)
STARTDT	NOT NULL	DATE
ENDDT	NOT NULL	DATE
PRIZE	NOT NULL	NUMBER

Table created.

EXERCISE 3

Create Match table as per details below. A player cannot play against himself, so player1 should not be equal to player2.

Column Name	Data Type	Constraint		Description
Mid	INTEGER	PRIMARY KEY		Unique Match Id for a tournament
Tid	INTEGER		FOREIGN KEY	Existing tournament Id present in tournament table
Player1	INTEGER	FOREIGN KEY	Player1 should not be equal to Player2	Existing player Id present in player table
Player2	INTEGER	FOREIGN KEY		Existing player Id present in player table
MatchDt	DATE	NOT NULL		Match Date
Winner	INTEGER	FOREIGN KEY		Existing player Id present in Player table
Score	VARCHAR2(30)	NOT NULL		Match Score

QUERY

Write your query here

```
1 CREATE TABLE Match(  
2 Mid INT,Tid INT,  
3 Winner INT,  
4 Player1 INT,Player2 INT,  
5 MatchDt DATE NOT NULL,  
6 Score VARCHAR2(30) NOT NULL,  
7 PRIMARY KEY(Mid,Tid),  
8 FOREIGN KEY(Player1) references Player(Pid),  
9 FOREIGN KEY(Player2) references Player(Pid),  
10 FOREIGN KEY(Winner) references Player(Pid),  
11 CHECK(Player1<Player2)  
12 );
```

Verify

Submit

OUTPUT

NAME	NULL	TYPE
MID	NOT NULL	NUMBER
TID	NOT NULL	NUMBER
WINNER		NUMBER
PLAYER1		NUMBER
PLAYER2		NUMBER
MATCHDT	NOT NULL	DATE
SCORE	NOT NULL	VARCHAR2(30)
Table created.		

EXERCISE 4

Add 'MatchesPlayed', 'MatchesWon' columns of type NUMBER to Player table discribed below.

Column Name	Data Type	Constraint	Description
PId	INTEGER	PRIMARY KEY	Unique Player Id
PName	VARCHAR2(20)	NOT NULL	Player Name
Ranking	INTEGER		Player's ranking
ContactNo	NUMBER(10)		Player Contact Number

Write your query here

1 ALTER TABLE Player ADD(MatchesPlayed NUMBER,MatchesWon NUMBER);

QUERY

Write your query here

1 ALTER TABLE Player ADD(MatchesPlayed NUMBER,MatchesWon NUMBER);

Verify

Submit

Query Result

OUTPUT

Query Result

NAME	Null?	TYPE
PID	NOT NULL	NUMBER
PNAME	NOT NULL	VARCHAR2(20)
RANKING		NUMBER
CONTACTNO		NUMBER(10)
MATCHESPLAYED		NUMBER
MATCHESWON		NUMBER

Table altered.

EXERCISE 7

Drop Column 'ContactNo' from table Player.

Column Name	Data Type	Constraint	Description
PId	INTEGER	PRIMARY KEY	Unique Player Id
PName	VARCHAR2(20)	NOT NULL	Player Name
Ranking	INTEGER		Player's ranking
ContactNo	NUMBER(10)		Player Contact Number

QUERY

Write your query here

1 ALTER TABLE Player DROP(ContactNo);

Verify

Submit

OUTPUT

Query Result

NAME	Null?	TYPE
PID	NOT NULL	NUMBER
PNAME	NOT NULL	VARCHAR2(20)
RANKING		NUMBER

Table altered.

EXERCISE 8

Rename Column 'Pid' to 'PlayerId' in table Player.

Column Name	Data Type	Constraint	Description
PId	INTEGER	PRIMARY KEY	Unique Player Id
PName	VARCHAR2(20)	NOT NULL	Player Name
Ranking	INTEGER		Player's ranking
ContactNo	NUMBER(10)		Player Contact Number

Write your query here

QUERY

Write your query here

1 ALTER TABLE Player RENAME COLUMN PId TO PlayerId;

Verify

Submit

OUTPUT

Query Result

NAME	Null?	TYPE
PLAYERID	NOT NULL	NUMBER
PNAME	NOT NULL	VARCHAR2(20)
RANKING		NUMBER
CONTACTNO		NUMBER(10)

Table altered.

EXERCISE 9

Modify datatype of PName to VARCHAR2(50) in Player table.

Column Name	Data Type	Constraint	Description
PId	INTEGER	PRIMARY KEY	Unique Player Id
PName	VARCHAR2(20)	NOT NULL	Player Name
Ranking	INTEGER		Player's ranking
ContactNo	NUMBER(10)		Player Contact Number

Write your query here

QUERY

1 ALTER TABLE Player MODIFY PName VARCHAR2(50);

Verify Submit

OUTPUT

Query Result

NAME	Null?	TYPE
PID	NOT NULL	NUMBER
PNAME	NOT NULL	VARCHAR2(50)
RANKING		NUMBER
CONTACTNO		NUMBER(10)

Table altered.