CIS 251
Assignment 3

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In this assignment, you are looking at the structure of our example / assignment database and answering some requests about the database:

Part I (10 points)

This portion of the assignment is to familiarize you with the structure of the assignment database (tennis). For each of the fields in a table, you will need to look at how the table was created and the definitions given for each field. You should look at the CREATE TABLE statements from assignment #2. Each CREATE TABLE statement will fill in the information required within Part I of this assignment. For instance, if a field says "NOT NULL" than the field is required; therefore the Required Y/N column would be "Y".

Table: **PLAYERS**

Column Name	Data Type	Required Y/N
PLAYERNO	Integer	Y
NAME	CHAR	Y
INITIALS	Char	y
BIRTH_DATE	Date	N
SEX	Char	Y
JOINED	Smallint	Y
STREET	Varchar	Y
HOUSENO	Char	N
POSTCODE	Char	N
TOWN	Varchar	Y
PHONE	Char	N
LEAGUENO	Char	n

Table: **TEAMS**

Column Name	Data Type	Required Y/N
TEAMNO	Integer	Y
PLAYERNO	Integer	Y
DIVISION	char	Y

Table: **MATCHES**

Column Name	Data Type	Required Y/N
MATCHNO	integer	Y
TEAMNO	Integer	Y
PLAYERNO	Integer	Y
WON	Smallint	Y
LOST	Smallint	Y

Table: **PENALTIES**

Column Name	Data Type	Required Y/N
PAYMENTNO	Integer	Y
PLAYERNO	Integer	Y
PAYMENT_DATE	Date	Y
AMOUNT	Decimal	Y

Table: **COMMITTEE_MEMBERS**

Column Name	Data Type	Required Y/N
PLAYERNO	Integer	Y
BEGIN_DATE	Date	Y
END_DATE	Date	N
POSITION	char	N

Part II (30 Points)

In this assignment you will be requested to create a series of SQL statements by your boss. In the real world: your boss isn't going to ask you "Would you SELECT name, initials, houseno, street, town, postcode FROM players WHERE town = 'Stratford';". Instead, the request would be worded something like "The Robert Parmenters' are having a barbeque this weekend and wanted to invite all the members that are living in Stratford. They need the members' name, initials, and address. Please include the post code, too."

So, how would I approach the request? I'd start by dissecting the statement.

First, I'd look at what fields are needed to fulfill the request. They are:

name, initials, houseno, street, town, postcode

Second, what table is or are required to find the requested information?

Players

Third, are the any special conditions or restriction placed upon the request?

Only players or members from Stratford.

Now I can assemble my SQL statement.

```
SELECT      name, initials, houseno, street, town, postcode
FROM        players
WHERE       town = 'Stratford';
```

Request 1. Would you provide me with a list of all the players that have had penalties? I need the player numbers, the date the payment was made, and the amount.

```
SELECT      PLAYERNO, PAYMENT_DATE, AMOUNT
FROM        PENALTIES
WHERE       AMOUNT > 0
```

Request 2. We've just received an invitation to a new tennis tournament. Would you send copies of this invitation to the team captains? I need to know the name, initials, and addresses of the team captains.

```
SELECT      P.NAME, P.INITIALS, P.STREET, P.HOUSENO, P.POSTCODE, P.TOWN
FROM        PLAYERS AS P, TEAMS AS T
WHERE       P.PLAYERNO = T.PLAYERNO
```

Request 3. What members have served as chairman of the committees? Would you provide me with their player number, name, and the dates that they have served as chairman?

```
SELECT      PLAYERNO, BEGIN_DATE, END_DATE
FROM        COMMITTEE_MEMBERS
WHERE       POSITION = 'Chairman'
```

What to turn in:
- This Microsoft Word document with your completed tables from Part I and your SQL statements from Part II.
- Suggestion: Create your SQL statements in your preferred software and copy the statement directly into this document.