CIS 251 Fall 2012
Assignment 6 – COMBINING TABLE EXPRESSIONS, UPDATING TABLES, AND
CREATING TABLES

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This assignment requires that you create statements as specified below; using the
UNION, UPDATE or CREATE TABLE statement.

UNION - Please copy the SQL statement that you type into this document (Do not use a screen
capture for your SQL statements) and give me the number of records that you get as result.

1. Find the player name and initials as a single column called **Player**, for those players
   living in Stratford, Inglewood and Midhurst. (Remember to use a UNION statement.)

   SQL Statement:

   ```
   SELECT  CONCAT(SUBSTR(INITIALS,1,1),'. ', NAME) AS PLAYER
   FROM    PLAYERS
   WHERE   TOWN = 'Stratford'
   UNION
   SELECT  CONCAT(SUBSTR(INITIALS,1,1),'. ', NAME)
   FROM    PLAYERS
   WHERE   TOWN = 'Inglewood'
   UNION
   SELECT  CONCAT(SUBSTR(INITIALS,1,1),'. ', NAME)
   FROM    PLAYERS
   WHERE   TOWN = 'Midhurst';
   ```

   Number of records in results: **10**

CREATE and INSERT – Please copy the SQL statement(s) that you type into this document
(Do not use a screen capture for your SQL statements) and give me the number of records that
you get as result.

2. You are to create two new tables, COMMITTEE_CHAIRS and TOURNAMENTS, and
   populate the tables with data.

Additional Information:
   a. COMMITTEE_CHAIR table: The members of the general Committee have decided that
      the work is now too much for them to handle They have decided to create sub-
      committees

   b. TOURNAMENTS table: The club has decided to start hosting tennis tournaments and
      wants to record information about the tournaments

COMMITTEE_CHAIRS
The information they have determined that they want to record about the sub-committee chairs
includes

   • **committee name** - title of the committee
   • **player number** - player serving as chair
   • **start date** - date the player starting serving as committee chair

In naming your columns be consistent with other naming conventions already established within
the TENNIS database.

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The following committees have been determined to be needed now
- **membership** - player number 8 has agreed to serve as chair starting 2000-8-1
- **tournament** - player number 28 has agreed to serve as chair starting 2000-8-1

If you feel there is anything missing in this definition, please list your assumptions and why you
set your table up the way you did.

SQL statement to create COMMITTEE_CHAIRS table:

```
/*
ASSUMPTIONS:
Unless otherwise specified, I'm inserting an autoincrementing primary
key.
The COMMITTEE_NAME allows for 100 characters, because I'm predisposed
to thinking these are a bunch of beer-swilling soccer players and who
knows what kind of committee names they could come up with--and then
I specified VARCHAR to reclaim any unused space. I would probably
wander over to someone's cubicle to see if they wanted to also add
an END_DATE, but that's easy enough to do later. I've re-used the
column name PLAYERNO because it's everywhere in the DB, so I've stuck
with it for the sake of consistency. I stuck with INTEGER (as opposed
to SMALLINT or TINYINT) because I worked at a place once where we
ran out of numbers. The amount of disk space saved by using was
definitely not worth the time we spent debugging.
*/
CREATE TABLE COMMITTEE_CHAIRS
       (CHAIR_ID        INTEGER NOT NULL PRIMARY KEY AUTO_INCREMENT,
          COMMITTEE_NAME VARCHAR(100),
        PLAYERNO        INTEGER NOT NULL,
        START_DATE    DATE NOT NULL);
```

SQL statement to insert data into the COMMITTEE_CHAIRS table:

```
INSERT INTO COMMITTEE_CHAIRS (COMMITTEE_NAME, PLAYERNO, START_DATE)
VALUES ('Keg Acquisitions', 8, '2000-8-1'),
       ('Empty Keg Return Team', 28, '2000-8-1');
```

TOURNAMENTS

TOURNAMENTS
The information Committee members have determined that they want to record about the
tournaments includes
- **tournament date**
- **player number** - player serving as official at the tournament (not the same as the
  member serving as committee chair for the tournament)
- **league number** - what league will be playing in the tournament
- **type of tournament** - Men's only, to be indicated with 'M', Women's only, to be indicated
  with 'W' or both, indicated with a 'B'

In naming your columns be consistent with other naming conventions already established within
our tennis database.

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The following tournaments are scheduled now
- 2000-8-5, player number 8 has agreed to serve as official at this tournament, league
  number 1124 will be playing, and it will be open to both men and women
- 2000-9-15, player number 104 has agreed to serve as official at this tournament, league
  number 1608 will be playing, and it will be open to women

If you feel there is anything missing in this definition, please list your assumptions and why you
set your table up the way you did.

SQL statement to create TOURNAMENTS table:

```sql
/*
ASSUMPTIONS:
Using TOURNAMENT_ID as primary key (autoincrementing). Allowing
the TOURNAMENT_DATE, LEAGUENO, and TOURNAMENT_TYPE to be NULL to
allow a tournament to be created with little information other than
the player serving as the official. Inquiries for incomplete info
could then directed to the player. Would interview the user to get
more requirements.
*/
USE test;
-- DROP TABLE TOURNAMENTS;
CREATE TABLE TOURNAMENTS
       (TOURNAMENT_ID   INTEGER NOT NULL PRIMARY KEY AUTO_INCREMENT,
        TOURNAMENT_DATE DATE,
        PLAYERNO        INTEGER NOT NULL,
        LEAGUENO        INTEGER NULL,
          TOURNAMENT_TYPE CHAR(1) NULL);
```

SQL statement to insert data into the TOURNAMENTS table:

```sql
INSERT INTO TOURNAMENTS (TOURNAMENT_DATE, PLAYERNO, LEAGUENO,
TOURNAMENT_TYPE)
VALUES ('2000-8-5', 8, 1124, 'B'),
       ('2000-9-15', 104, 1608, 'W');
```

UPDATING TABLES – Please copy the SQL statement(s) that you type into this document
(Do not use a screen capture!) and give me the number of records that you get as result.

3. After seeing the structure of the COMMITTEE_CHAIRS table, the committee members
   decide they also want to keep track of the date that committee chairs stop being chairs.
   Alter the COMMITTEE_CHAIRS table adding a column:

- **end date** – date the player stopped serving as a committee chair

SQL statement to alter the COMMITTEE_CHAIRS table:
```
/*
The END_DATE needs to be okay with NULLS to allow for active users.
*/
ALTER TABLE COMMITTEE_CHAIRS
ADD    END_DATE DATE NULL;
```

Number of records in results: **2**