

CIS 251 Final Exam

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I am using x MySQL SQL Server 2008

This is your part 1 of final examination for CIS 251 - Introduction to SQL. This week you will be creating a database using SQL statements you have learned during the last few weeks. Part 2, next week, you will be running queries against this database. I should be able to cut and paste your statements into your selected RDBMS and create your database.

Step 1 - Create the database and insert the data. This is a campaign database. You will have to create each table and:

1. Decide on primary keys and what they should be or if you need to create a primary key. Remember your rules from CIS 250 about creating primary keys; however it is my recommendation to **not** use composite keys for any table.
2. Decide on foreign keys. Remember your rules from CIS 250 about creating foreign keys and what you have learned in this class about foreign keys. (While the data below may be redundant within the various tables, you would never keep the actual data in both places!) Be sure to create the appropriate foreign keys in the tables.
3. Decide if a field is required or optional.
4. Decide on what restrictions or checks you should have on data, constraints or checks.
5. Run your created SQL statements to create the tables and insert the data.

Turn in:

1. This word document with a single complete SQL script. This script should be able to be run in SQL Server Management Studio or MySQL / Toad (check the appropriate RDBMS above).
2. Do not forget to put your name on this document.

Insert your script here:

```
CREATE TABLE CONTRIBUTORS
(CONTRIBUTOR_ID          INTEGER          NOT NULL AUTO_INCREMENT,
CONTRIBUTOR_FNAME       CHAR (20)          NOT NULL
CONTRIBUTOR_LNAME       CHAR (20)          NOT NULL
ADDRESS                  VARCHAR (35)
CITY                     CHAR (25)
STATE                    CHAR (3)
ZIP                      CHAR (7)
HOME_PHONE               VARCHAR (20)
PRIMARY KEY              (CONTRIBUTOR_ID)
);
```

```
CREATE TABLE CAMPAIGNS
(CAMPAIGN_ID             INTEGER          NOT NULL AUTO_INCREMENT,
CAMPAIGN_NAME            CHAR (30)          NOT NULL
CHAIR_FNAME              CHAR (20)          NOT NULL
CHAIR_LNAME              CHAR (20)          NOT NULL
LAUNCH_DATE              DATE              NOT NULL
END_DATE                 DATE              NOT NULL
FUNDRAISING_GOAL         INTEGER          NOT NULL
PRIMARY KEY              (CAMPAIGN_ID)
);
```

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```
CREATE TABLE PLEDGES
(PLEDGE_ID                INTEGER          NOT NULL AUTO_INCREMENT,
CONTRIBUTOR_ID           INTEGER          NOT NULL
CAMPAIGN_ID               INTEGER          NOT NULL
PLEDGE_DATE               DATE             NOT NULL
AMOUNT                    INTEGER          NOT NULL
PAID                      CHAR(4)         NOT NULL
PAYMENT_DATE              DATE
PRIMARY KEY               (PLEDGE_ID),
FOREIGN KEY (CONTRIBUTOR_ID) REFERENCES CONTRIBUTORS (CONTRIBUTOR_ID),
FOREIGN KEY (CAMPAIGN_ID) REFERENCES CAMPAIGNS (CAMPAIGN_ID) );

INSERT INTO CONTRIBUTORS
(CONTRIBUTOR_FNAME, CONTRIBUTOR_LNAME, ADDRESS, CITY, STATE, ZIP, HOME_PHONE)
VALUES
('John', 'Steel', '12 Orchestra Terrace', 'Walla Walla', 'WA', 99362,
 '(204) 555-6221'),
('Helvetius', 'Nagy', '1200 Main St.', 'Kirkland', 'WA', 98034,
 '(204) 555-8257'),
('Karl', 'Jablonski', '305 - 14th Ave. S.', 'Seattle', 'WA', 98128,
 '(204) 555-4112'),
('Art', 'Steel', 'P.O. Box 555', 'Walla Walla', 'WA', 99362,
 '(204) 555-6221'),
('John', 'Wilson', '1200 Main St.', 'Portland', 'OR', 97219,
 '(505) 555-9573'),
('Sandra', 'Jones', '3535 255th St SW', 'Seattle', 'WA', 98133,
 '(204) 555-3311');

INSERT INTO CAMPAIGNS
(CAMPAIGN_NAME, CHAIR_FNAME, CHAIR_LNAME, LAUNCH_DATE, END_DATE, FUNDRAISING_GOAL)
VALUES
('Lambert for Mayor', 'Shelly', 'Burke', '2010-01-01', '2012-11-08', 2000),
('Books for Schools', 'Jody', 'Forestor', '2010-01-03', '2012-11-08', 4000),
('Send Brit Tour to Brit', 'Seاون', 'Collins', '2011-03-15', '2011-05-30',
10000);

INSERT INTO PLEDGES
(CONTRIBUTOR_ID, CAMPAIGN_ID, PLEDGE_DATE, AMOUNT, PAID, PAYMENT_DATE) VALUES
((SELECT CONTRIBUTOR_ID FROM CONTRIBUTORS WHERE CONCAT(CONTRIBUTOR_FNAME, ' ',
CONTRIBUTOR_LNAME) = 'John Steel'),
 (SELECT CAMPAIGN_ID FROM CAMPAIGNS WHERE CAMPAIGN_NAME = 'Lambert For Mayor'),
 '2010-01-10', 250, 'Y', '2010-01-12');

INSERT INTO PLEDGES
(CONTRIBUTOR_ID, CAMPAIGN_ID, PLEDGE_DATE, AMOUNT, PAID, PAYMENT_DATE) VALUES
((SELECT CONTRIBUTOR_ID FROM CONTRIBUTORS WHERE CONCAT(CONTRIBUTOR_FNAME, ' ',
CONTRIBUTOR_LNAME) = 'Helvetius Nagy'),
 (SELECT CAMPAIGN_ID FROM CAMPAIGNS WHERE CAMPAIGN_NAME = 'Lambert For Mayor'),
 '2010-03-11', 75, 'Y', '2010-03-12');

INSERT INTO PLEDGES
(CONTRIBUTOR_ID, CAMPAIGN_ID, PLEDGE_DATE, AMOUNT, PAID, PAYMENT_DATE) VALUES
((SELECT CONTRIBUTOR_ID FROM CONTRIBUTORS WHERE CONCAT(CONTRIBUTOR_FNAME, ' ',
CONTRIBUTOR_LNAME) = 'Karl Jablonski'),
 (SELECT CAMPAIGN_ID FROM CAMPAIGNS WHERE CAMPAIGN_NAME = 'Lambert For Mayor'),
 '2010-02-01', 45, 'Y', '2010-02-01');

INSERT INTO PLEDGES
```

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```
(CONTRIBUTOR_ID, CAMPAIGN_ID, PLEDGE_DATE, AMOUNT, PAID, PAYMENT_DATE) VALUES
  ((SELECT CONTRIBUTOR_ID FROM CONTRIBUTORS WHERE CONCAT(CONTRIBUTOR_FNAME, ' ',
CONTRIBUTOR_LNAME) = 'Art Steel'),
  (SELECT CAMPAIGN_ID FROM CAMPAIGNS WHERE CAMPAIGN_NAME = 'Lambert For Mayor'),
  '2010-05-01', 55, 'Y', '2010-05-10');
```

```
INSERT INTO PLEDGES
(CONTRIBUTOR_ID, CAMPAIGN_ID, PLEDGE_DATE, AMOUNT, PAID, PAYMENT_DATE) VALUES
  ((SELECT CONTRIBUTOR_ID FROM CONTRIBUTORS WHERE CONCAT(CONTRIBUTOR_FNAME, ' ',
CONTRIBUTOR_LNAME) = 'Art Steel'),
  (SELECT CAMPAIGN_ID FROM CAMPAIGNS WHERE CAMPAIGN_NAME = 'Books for Schools'),
  '2010-05-22', 100, 'Y', '2010-05-27');
```

```
INSERT INTO PLEDGES
(CONTRIBUTOR_ID, CAMPAIGN_ID, PLEDGE_DATE, AMOUNT, PAID, PAYMENT_DATE) VALUES
  ((SELECT CONTRIBUTOR_ID FROM CONTRIBUTORS WHERE CONCAT(CONTRIBUTOR_FNAME, ' ',
CONTRIBUTOR_LNAME) = 'John Wilson'),
  (SELECT CAMPAIGN_ID FROM CAMPAIGNS WHERE CAMPAIGN_NAME = 'Lambert For Mayor'),
  '2010-04-01', 75, 'Y', '2010-04-01');
```

```
INSERT INTO PLEDGES
(CONTRIBUTOR_ID, CAMPAIGN_ID, PLEDGE_DATE, AMOUNT, PAID, PAYMENT_DATE) VALUES
  ((SELECT CONTRIBUTOR_ID FROM CONTRIBUTORS WHERE CONCAT(CONTRIBUTOR_FNAME, ' ',
CONTRIBUTOR_LNAME) = 'John Wilson'),
  (SELECT CAMPAIGN_ID FROM CAMPAIGNS WHERE CAMPAIGN_NAME = 'Lambert For Mayor'),
  '2010-06-22', 100, 'N', NULL);
```

```
INSERT INTO PLEDGES
(CONTRIBUTOR_ID, CAMPAIGN_ID, PLEDGE_DATE, AMOUNT, PAID, PAYMENT_DATE) VALUES
  ((SELECT CONTRIBUTOR_ID FROM CONTRIBUTORS WHERE CONCAT(CONTRIBUTOR_FNAME, ' ',
CONTRIBUTOR_LNAME) = 'John Wilson'),
  (SELECT CAMPAIGN_ID FROM CAMPAIGNS WHERE CAMPAIGN_NAME = 'Books for Schools'),
  '2010-06-02', 25, 'Y', '2010-06-10');
```

```
INSERT INTO PLEDGES
(CONTRIBUTOR_ID, CAMPAIGN_ID, PLEDGE_DATE, AMOUNT, PAID, PAYMENT_DATE) VALUES
  ((SELECT CONTRIBUTOR_ID FROM CONTRIBUTORS WHERE CONCAT(CONTRIBUTOR_FNAME, ' ',
CONTRIBUTOR_LNAME) = 'Karl Jablonski'),
  (SELECT CAMPAIGN_ID FROM CAMPAIGNS WHERE CAMPAIGN_NAME = 'Books for Schools'),
  '2010-07-31', 100, 'Y', '2010-08-01');
```

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Data: **CONTRIBUTOR**

FirstName	LastName	Address	City	State	Zip	HomePhone
John	Steel	12 Orchestra Terrace	Walla Walla	WA	99362	(204) 555-6221
Helvetius	Nagy	1200 Main St.	Kirkland	WA	98034	(204) 555-8257
Karl	Jablonski	305 – 14 th Ave. S.	Seattle	WA	98128	(204) 555-4112
Art	Steel	P.O. Box 555	Walla Walla	WA	99362	(204) 555-6221
John	Wilson	1200 Main St.	Portland	OR	97219	(505) 555-9573
Sandra	Jones	3535 255 th St SW	Seattle	WA	98133	(204) 555-3311

Data: **CAMPAIGN**

CampaignName	ChairFirstName	ChairLastName	LaunchDate	EndDate	FundraisingGoal
Lambert for Mayor	Shelley	Burke	2010-01-01	2012-11-08	\$2000
Books for Schools	Jody	Forestor	2010-01-03	2012-11-08	\$4000
Send Brit Tour to Brit	Seاون	Collins	2011-03-15	2011-05-30	\$10,000

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Data: **PLEDGE**

ContributorID	CampaignID	DatePledged	Amount	Paid	PaymentDate
John Steel	Lambert For Mayor	2010-01-10	\$250	Y	2010-01-12
Helvetius Nagy	Lambert For Mayor	2010-03-11	\$75	Y	2010-03-12
Karl Jablonski	Lambert For Mayor	2010-02-01	\$45	Y	2010-02-01
Art Steel	Lambert For Mayor	2010-05-01	\$55	Y	2010-05-10
Art Steel	Books for Schools	2010-05-22	\$100	Y	2010-05-27
John Wilson	Lambert For Mayor	2010-04-01	\$75	Y	2010-04-01
John Wilson	Lambert For Mayor	2010-06-22	\$100	N	
John Wilson	Books For Schools	2010-06-02	\$25	Y	2010-06-10
Karl Jablonski	Books For Schools	2010-07-31	\$100	Y	2010-08-01