

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 DATABASE CAMPAIGN;
```

```
USE CAMPAIGN;
```

```
CREATE TABLE CONTRIBUTORS (  
CONT_ID          INTEGER          NOT NULL    PRIMARY KEY,  
CONT_F_NAME     CHAR (15)        NOT NULL,  
CONT_L_NAME     CHAR (25)        NOT NULL,  
STREET          CHAR (40)        NOT NULL,  
CITY            CHAR (20)        NOT NULL,  
STATE           CHAR (2)         NOT NULL,  
ZIP             CHAR (5)         NOT NULL,  
PHONE           CHAR (14)        NOT NULL);
```

```
CREATE TABLE CAMPAIGNS (  
CAMP_ID         INTEGER          NOT NULL    PRIMARY KEY,  
CAMP_NAME       CHAR (20)        NOT NULL,  
CHAIR_F_NAME    CHAR (15)        NOT NULL,  
CHAIR_L_NAME    CHAR (25)        NOT NULL,  
LAUNCH_DATE     DATE            NOT NULL,  
END_DATE        DATE            NOT NULL,  
GOAL_AMOUNT     DECIMAL (10, 2) NOT NULL);
```

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```
CREATE TABLE PLEDGES (
PLEDGE_ID          INTEGER          NOT NULL    PRIMARY KEY,
PLEDGE_DATE        DATE             NOT NULL,
PLEDGE_AMOUNT      DECIMAL(10, 2)   NOT NULL,
PAID                CHAR(1)         NOT NULL
CHECK(PAID IN ('Y', 'N')),
DATE_PAID          DATE
CONT_ID            INTEGER          NOT NULL,
CAMP_ID            INTEGER          NOT NULL,
FOREIGN KEY (CONT_ID)
REFERENCES CONTRIBUTORS (CONT_ID),
FOREIGN KEY (CAMP_ID)
REFERENCES CAMPAIGNS (CAMP_ID));

INSERT INTO CONTRIBUTORS VALUES (
1, 'John', 'Steel', '12 Orchestra Terrace', 'Walla Walla', 'WA', '99362', '(204)
555-6221');

INSERT INTO CONTRIBUTORS VALUES (
2, 'Helvetius', 'Nagy', '1200 Main St', 'Kirkland', 'WA', '98034', '(204) 555-
8257');

INSERT INTO CONTRIBUTORS VALUES (
3, 'Karl', 'Jablonski', '305-14th Ave S', 'Seattle', 'WA', '98128', '(204) 555-
4112');

INSERT INTO CONTRIBUTORS VALUES (
4, 'Art', 'Steel', 'P.O. Box 555', 'Walla Walla', 'WA', '99362', '(204) 555-6221');

INSERT INTO CONTRIBUTORS VALUES (
5, 'John', 'Wilson', '1200 Main St', 'Portland', 'OR', '97219', '(505) 555-9573');

INSERT INTO CONTRIBUTORS VALUES (
6, 'Sandra', 'Jones', '3535 255th St SW', 'Seattle', 'WA', '98133', '(204) 555-
3311');

INSERT INTO CAMPAIGNS VALUES (
1, 'Lambert for Mayor', 'Shelley', 'Burke', '2010-01-01', '2012-11-08', 2000.00);

INSERT INTO CAMPAIGNS VALUES (
2, 'Books for Schools', 'Jody', 'Forestor', '2010-01-03', '2012-11-08', 4000.00);

INSERT INTO CAMPAIGNS VALUES (
3, 'Send Brit Tour to Brit', 'Seun', 'Collins', '2011-03-15', '2011-05-30',
10000.00);

INSERT INTO PLEDGES VALUES (
1, '2010-01-10', 250.00, 'Y', '2010-01-12', 1, 1);

INSERT INTO PLEDGES VALUES (
2, '2010-03-11', 75.00, 'Y', '2010-03-12', 2, 1);

INSERT INTO PLEDGES VALUES (
3, '2010-02-01', 45.00, 'Y', '2010-02-01', 3, 1);

INSERT INTO PLEDGES VALUES (
4, '2010-05-01', 55.00, 'Y', '2010-05-10', 4, 1);

INSERT INTO PLEDGES VALUES (
5, '2010-05-22', 100.00, 'Y', '2010-05-27', 4, 2);
```

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```
INSERT INTO PLEDGES VALUES (
6, '2010-04-01', 75.00, 'Y', '2010-04-01', 5, 1);
```

```
INSERT INTO PLEDGES VALUES (
7, '2010-06-22', 100.00, 'N', NULL, 5, 1);
```

```
INSERT INTO PLEDGES VALUES (
8, '2010-06-02', 25.00, 'Y', '2010-06-10', 5, 2);
```

```
INSERT INTO PLEDGES VALUES (
9, '2010-07-31', 100.00, 'Y', '2010-08-01', 3, 2);
```

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

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	NULL
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