CIS/CSC384

HomeWork 3: Due Feb 11, 2010 before class
You will turn in the assignment via bb. Turn in a single word/pdf document.

CustNo	CustFName	CustLName	CustCity	CustState	CustZip	CustBal
C0954327	Sheri	Gordon	Littleton	CO	80129-5543	$230.00
C1010398	Jim	Glussman	Denver	CO	80111-0033	$200.00
C2388597	Beth	Taylor	Seattle	WA	98103-1121	$500.00
C3499503	Bob	Mann	Monroe	WA	98013-1095	$0
C8543321	Rom	Thomson	Renton	WA	98666-1289	$85.00
C3340959	Betty	Wise	Seattle	WA	98178-3311	$200.00

EmpNo	EmpFName	EmpLName	EmpPhone	EmpEmail
E1329594	Landi	Santos	(303) 789-1234	LSantos@bigco.com
E8544399	Joe	Jenkins	(303) 221-9875	JJenkins@bigco.com
E8843211	Amy	Tang	(303) 556-4321	ATang@bigco.com
E9345771	Colin	White	(303) 221-4453	CWhite@bigco.com
E9884325	Thomas	Johnson	(303) 556-9987	TJohnson@bigco.com
E9954302	Mary	Hill	(303) 556-9871	MHill@bigco.com

OrdNo	OrdDate	CustNo	EmpNo
O1116324	01/23/2007	C0954327	E8544399
O2334661	01/14/2007	C0954327	E1329594
O3331222	01/13/2007	C1010398	
O2233457	01/12/2007	C2388597	E9884325
O4714645	01/11/2007	C2388597	E1329594
O5511365	01/22/2007	C3340959	E9884325
O7989497	01/16/2007	C3499503	E9345771
O1656777	02/11/2007	C8543321	
O7959898	02/19/2007	C8543321	E8544399

1. Write CREATE TABLE statements for the Customer table, Employee table and OrderTbl (sample data is given above). Choose appropriate data types, define appropriate NOT NULL constraints, primary key/unique constraints, and foreign key constraints. Also when you define foreign key constraints, choose appropriate SET NULL/CASCADE constraints. [6]

2. Show the result of a restrict operation that lists the customers residing in Seattle, WA. [0.5]

3. Show the result of a project operation that lists the CustNo, CustFName and CustLName columns of the Customer table. [0.5]

4. Show the result of a natural join of the Employee and OrderTbl tables. [0.5]

5. Show the result of a full outer join of the Employee and OrderTbl tables. [0.5]

6. Show the result of a summarize operation on Customer. The grouping column is CustState, and the aggregate calculation is COUNT. COUNT shows the number of rows with the same value for its grouping column. [0.5]

7. What tables are required to show the CustLName, EmpLName and OrdNo columns in the result table? [0.5]

8. Are the Customer and Employee tables union compatible? [0.5]

9. Give the ALTER TABLE statement that alters the Employee table as follows. You add a new column called superEmp that denotes the supervisor for a particular employee (using the EmpNo of the supervisor). You must define appropriate foreign key constraints. [0.5]