

CPSC 5021 Database Systems

Fall 2017

Homework 3

Due: 6:00 pm, Thursday, Oct 19 (start of class)

Written Problems (Total points: 30)

Make sure that your writing is legible, or else, please type your answers.

1. (10 points) Convert the un-normalized table below to 3NF. Assume that the Dept. # and Cust. # are all needed to uniquely identify the date and nature of the complaint about the department.

<u>Dept. #</u>	Dept. Name	Location	Mgr. Name	Mgr. ID No.	Tel Extn.	<u>Cust. #</u>	Cust. Name	Date of Complaint	Nature of Complaint
11232	Soap Division	Cincinnati	Mary Samuel	S11	7711	P10451	Robert Drumtree	1/12/2012	Poor Service
11232	Soap Division	Cincinnati	Mary Samuel	S11	7711	P10480	Steven Parks	1/14/2012	Discourteous Attendant

2. (10 points)

Sales Order

***Fiction Company
202 N. Main
Mahattan, KS 66502***

CustomerNumber: 1001
Customer Name: ABC Company
Customer Address: 100 Points
Manhattan, KS 66502

Sales Order Number: 405
Sales Order Date: 2/1/2000
Clerk Number: 210
Clerk Name: Martin Lawrence

Item Ordered	Description	Quantity	Unit Price	Total
800	widgit small	40	60.00	2,400.00
801	tingimajigger	20	20.00	400.00
805	thingibob	10	100.00	1,000.00
Order Total				3,800.00

A table

Sales_Order (SalesOrderNo, Date, CustomerNo, CustomerName, CustomerAddress, ClerkNo, ClerkName, ItemNo, Description, Quantity, UnitPrice, OrderTotal) is used to save the sales order data (provided above). Please normalize this table to 3NF.

3. (10 points)

DreamHome Property Inspection Report

Property Number

PG4

Property Address

6 Lawrence
St, Glasgow

Inspection Date	Inspection Time	Comments	Staff Number	Staff Name
18-Oct-2014	10:00	Need to replace crookery	SG37	Ann Beech
15-April-2015	9:30	In good order	SG14	David Ford
1-Oct-2013	11:30	Damp rot in bathroom	SG14	David Ford

The following table is used to save the DreamHome property inspection report (provided above). Please normalize the table to 3NF.

Property_No	Property_Address	Inspection Date	Inspection Time	Comments	Staff_No	Staff Name
PG4	6 Lawrence St, Giasgow	18-Oct- 2014	10:00	Need to replace crookery	SG37	Ann Beech
PG4	6 Lawrence St, Giasgow	15-April- 2015	9:30	In good order	SG14	David Ford
PG4	6 Lawrence St, Giasgow	1-Oct-2013	11:30	Damp rot in bathroom	SG14	David Ford
PG16	5 Novar Dr., Giasgow	20-March- 2014	10:30	Replace living room carpet	SG14	David Ford
PG16	5 Novar Dr., Giasgow	16-May- 2012	9:00	Good condition	SG37	Ann Beech