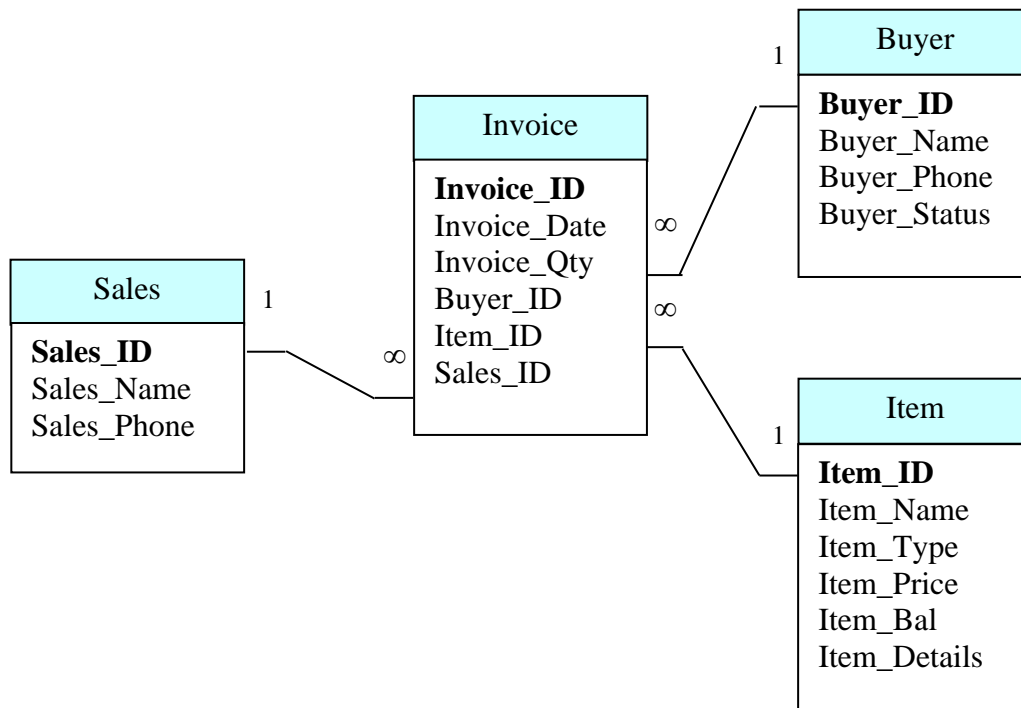


CIT6114 - Database Fundamentals

Lab 6

Q1. Based on the relationship diagram below, answer the following questions:



(a) **Create a new database in DB2.** Next create the above tables (clearly define the primary and foreign keys).

* FK is in Invoice table.

(b) **Write SQL commands** to insert the data into each table as shown below:

Item Table

Item_ID	Item_Name	Item_Type	Item_Price	Item_Bal	Item_Details
659	LCD Monitor	Computer	900.99	50	24 inch Samsung
965	Pen	Stationary	1.64	3	Red ink
855	Printer	Computer	300.55	1	Epson super jet
698	Fan	Electrical	86.11	4	Hitachi
598	Rubber	Stationary	0.63	98	Faber 3cm
456	Hardisc	Computer	250.81	2	Maxtor 500GB
879	Pen Drive	Computer	98.65	78	MyDrive 16GB mini version
989	Nokia Phone	Electrical	980.21	100	N85 super series
888	Camera	Electrical	1230.36	8	Sony 15 Megapixel

Sales Table

Sales_ID	Sales_Name	Sales_Phone
56523	Florence	60135698231
23598	Zelda	60125479563
98665	Clarry	60148597965
13579	Nasri	60195624664
68595	Arshavin	60168462649

Buyer Table

Buyer_ID	Buyer_Name	Buyer_Phone	Buyer_Status
1	Jerremy	61255689766	Active
2	Cech	60135695469	Not Active
3	Meluda	60191346876	Active
4	Jessica	60168954615	Active
5	Toure	60136546586	Not Active
6	Jesmon	60145226569	Active
7	Torres	60125469788	Active
8	Martin	60135468798	Not Active
9	Taylor	60124659789	Active

Invoice Table

Invoice_ID	Invoice_Date	Buyer_ID	Invoice_Qty	Item_ID	Sales_ID
10010	15-Dec-08	1	2	659	68595
10011	13-Jan-06	3	26	879	56523
10012	6-Mar-08	4	8	989	23598
10013	28-Oct-07	1	10	965	13579
10014	16-May-08	7	6	888	98665
10015	1-Dec-08	6	1	456	13579
10016	3-Dec-08	3	7	659	98665

Show also your table's result based on the DB2 view.

- (b) **Write the SQL statement** to list buyer's name and phone *sort* by buyer's name in ascending order. Show also your table's result based on the DB2 view.
- (d) **Write the SQL statement** to show the names of the sales person who handles the invoice of buyer Jeremy. Show also your table's result based on the DB2 view.
- (e) Write the SQL statement to show all sale person name and phone who issued invoice involving item type computer in the month of December 2008
- (f) Write the SQL statement to show all item name, item price, item balance and a new column named as total value (price * balance) of items which is not under the category of computer.
- (g) Find all buyers name whose phone number starts with 6013.
- (h) Remove Taylor's data from the Buyer table.