Database Management System (DBMS)

Lab Assignment -02

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Date of assignment: 18 Jan 2022

Q1. You have to create a database for general store information management system. Items can be described with a item number, item name, selling price, manufacturer name. The item can be sold to a particular customer where each customer will have a unique customer number, customer name, customer addresses, city, pin - code, state and total amount required to be paid. Each customer, order to a buy item from the salesman. In the order, it has unique sales order number, sales order date, customer number, salesman number (unique), billed payment by the party or not and its delivery date. The salesman have the name, addresses, city, pin code, state, salary of the sales man, delivery date, total quantity ordered, item rate. You have to create the four tables with the fields mentioned above along with the data given below for each table.

Item table

item_id	item_name	Manu_name	item_rate	Sell_prize	item_discription
i001	lux_soap	lux_company	15.67	20.43	soap
i002	copy	royal_notebook	14.80	16.40	copy
i003	goodday_biscuit	britania_stores	2218.80	2220.40	biscuit
i004	reynolds_pen	pen_parker	2015.67	2120.43	pen
i005	sql_books	book_bpb	5104.80	5116.40	book
i006	tata_steel	tata_sons	5118.80	5120.40	tata
i007	seagate hdd	hp_world	5104.80	5116.40	HDD1034
i008	dvd writer	moserbear_org	5118.80	5120.40	DVDRW

Customer table

Cust_id	Cust _name	Address	City	Pin	State	Bal_due
cu01001	alak roy	b.d.para	Patna	800015	Bihar	0
cu01002	suman roy	puk para	patna	800132	Bihar	2390.9
cu01004	priya das	chora para	Gaya	800010	Bihar	1390.9
cu01005	rina raj	kamal para	patna	800001	Bihar	0
cu01006	pulak roy	bircity	lucknow	226012	uttar pradesh	110.9
cu01007	priyanka das	nappam	lucknow	226005	uttar pradesh	190.9
cu01008	kusum roy	Jhalwa	allahabad	211012	uttar pradesh	110.9
cu01009	mina das	naini	allahabad	211078	uttar pradesh	0
cu01003	nidhi mishra	naini	allahabad	212079	uttar pradesh	9990.9

| cu01010 | kamal yadav | naini | allahabad | 211037 | uttar pradesh | 2990.9 |
| cu01011 | manali das | rajapur | allahabad | 212098 | uttar pradesh | 3990.9 |

Salesman table

Salesman_id	Salesman_name	Address	City	Pin	State	Salary
s001	rohan singh	rajapur	allhabad	212098	uttar pradesh	8000
s002	rohan singh	naini	allhabad	212096	uttar pradesh	9800
s003	smita roy	indira nagar	lucknow	226078	uttar pradesh	3400
s004	kabir bora	vikas nagar	lucknow	226045	uttar pradesh	6700
s005	neha singh	gomti nagar	lucknow	226032	uttar pradesh	9600
s006	priya agarwal	gandhi road	32 distric	799750	delhi	9900
s007	ashok paul	filmcity	munnabari	799740	mumbai	8900

Sales_order_ no	Sales_order _date	cust _id	Salesman_ id	Bill_payb y_party	Delivery_ date	item_rat e	Tot_qu antity_ order	Cancel_date
son01001	01-aug-2008	cu01001	s001	yes	20-aug-2008	2220.40	50	null
son01002	12-aug-2008	cu01004	s001	yes	23-aug-2008	2220.40	15	null
son01003	12-aug-2008	cu01005	s002	yes	26-aug-2008	2220.40	10	null
son01004	13-aug-2008	cu01004	s001	yes	20-aug-2008	2220.40	15	null
son01005	14-aug-2008	cu01002	s002	no	30-aug-2008	2220.40	52	28-march-2008
son01006	15-aug-2008	cu01001	s001	yes	31-aug-2008	2220.40	43	null
son01007	16-aug-2008	cu01003	s004	yes	28-aug-2008	2220.40	54	null
son01008	16-jan-2008	cu01004	s003	yes	02-aug-2008	2390.00	34	null
son01009	01-feb-2008	cu01004	s003	no	28-aug-2008	8220.40	54	18-march-2008

Sales order table

For the tables created above, write the SQL queries for the following –

1) Retrieve the list of names and the cities of the entire customer.
2) List the various items available.
3) List the customer who is located in Allahabad.
4) Find the item whose selling price is greater than 2000 and less than or equal to 5000.
5) Add a new column NEW_PRICE into the Item table.
6) Rename the column item_rate of Sales_Order to new_item_rate.
7) List the Item in sorted order of their description.
8) Display the order number and date on which the customer placed their order.
9) Delete all the records having delivery date before 25th August 2008.
10) Change the delivery date of order number SON01008 to 16-08-08.
11) Change the bal_due of cust_no CU01003 to 1200.
12) Change the Sell_price of DVD writer to 3000.

13) Find the item with description as 'HDD1034' and 'DVDRW'.
14) List the names, city and state of the customer not in the state of 'Uttar Pradesh'.
15) List of all orders that were canceled in the month of March.
16) Update the salary=10000 of "Rohan Singh" who is from naini, Allahabad.
17) Add the field Cust_mobile in customer table that can holds a number up to 10-digit in length.
18) Retrieve customer information that is NOT in allahabad OR lucknow.
19) Find the names of all customer/customers whose name is/are starting with the letter 'p'.
20) Retrieve Sales_order_date, cust _id, Salesman_id, Delivery_date from SalesOrder table where the value contained within the field Tot_quantity_order is between15 to 50.
21) Display the customer id whose delivery date is '30-aug-2008'.
22) Display the sales order date and delivery date in the following format.
    [Hint: use CONVERT (), GETDATE ()]
    a. dd-mm-yy(12-03-87)
    b. dd-mm-yyyy(12-03-1987)
    c. dd mm yy(12 03 87)
23) Display the cust_name which starts with any character, followed by "an" from the "Customer" table.
24) Display the cust_name which starts with "pri", followed by any three characters, followed by "an", followed by any character, followed by "a" from the "Customer" table.
25) Display the Salesman_name which starts with "r" or "s" or "k" from the "Salesman" table.
26) Destroy the Sales order table and all the data held in it.
27) Display the system date and time.
28) Display the columns and their attributes of the Customer table.
29) Rename the table Salesman to Sales_man.