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AMRITA SCHOOL OF ENGINEERING, COIMBATORE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic year   : 2022-2023 Odd Semester

Branch   : Int. M.Sc DS – III Year / Sem: 05

Course Code and Name   : 18CSC381 - Database Management Systems Lab

Objective   : Working with objects using SQL for the following i. Data definition language: create, alter, grant, revoke, drop, truncate. ii. Data manipulation language: select, insert, update, delete.

Component   : Practice Assignment 2 23.08.2022

Submission Mode through   : MS Forms.

Form Link   : https://forms.office.com/r/CvRX6VJRRW

Deadline for Submission   : 29/08/2022 11.45 PM

Create table buyer and seller with the following data types and insert the given values into it. Manipulate the tables with the following questions

TABLE NAME: BUYER

ATTRIBUTES	DATA-TYPES	LIMITS
client_id (Primary Key)	varchar2	15
name	varchar2	20
address1	varchar2	30
address2	varchar2	30
city	varchar2	15
state	varchar2	15
pincode	number	6
balance	number	10,2

CLIENT_ID	NAME	ADDRESS1	ADDRESS2	CITY	STATE	PINCODE	BALANCE
C-1003	XAVIER	EINSTEIN STREET	LANE 3	CHENNAI	TAMIL NADU	642005	2000.25
C-1005	BASHEEM	MAHATMA STREET	LANE 2	MUMBAI	MAHARASTRA	641105	650.75
C-1002	RAJU	ARMSTRONG STREET	LANE 2	MUMBAI	MAHARASTRA	641105	0
C-1001	ANAND	RAJA STREET	LANE 1	COIMBATORE	TAMIL NADU	641005	15000.2
C-1004	PAANDU	COLUMBUS STREET	LANE 1	COIMBATORE	TAMIL NADU	641005	1500.45
C-1006	FLASHMA	INDIRA STREET	LANE 3	KOLKATA	WESTBENGAL	641005	100.23

TABLE NAME: SELLER

ATTRIBUTES	DATA-TYPES	LIMITS
product_id (Primary Key)	varchar2	15
prod_name	varchar2	20

profit_percent	integer	5				
stock	integer	5				
minimum_stock	integer	5				
sell_price	number	10,2				
cost_price	number	10,2				

PRODUCT_ID	PROD_NAME	PROFIT_ PERCENT	STOCK	MINIMUM_ STOCK	SELL_PR ICE	COST_ PRICE
P-2564	LG MONITOR	5	100	20	52500	50000
P-3598	SAM MONITOR	6	10	3	11872	11200
P-5864	HP MONITOR	5	20	5	7875	7500
P-6594	ACER MONITOR	5	20	100	23100	22000
P-2484	DELL MONITOR	2	10	3	30600	30000
P-4569	LENO MONITOR	2.5	10	3	53043.75	51750
P-1846	APPL MONITOR	4	10	3	39520	38000
P-7596	COMPAQ MONITOR	5	10	3	7875	7500
P-3265	XIAOMI MONITOR	5	2	3	7875	7500

Questions:
1. Find all the products whose sell price is greater than 50000
2. Find the product whose selling price is greater than 20000 and less than or equal to 50000
3. List the name, city and state of clients not in the state of 'MAHARASTRA.
4. Change the cost price of 'LG MONITOR to Rs.55000
5. Delete the record with client C-1001 from the buyer table.
6. Change the city of client_id 'C-1005' to some other city.
7. Change the balance of client_id 'C1002, to 1000.
8. Find the products whose selling price is more than 15000 and also set the new selling price as original selling price * 5%.
9. Find out the clients who stay in a city whose second letter is 'O'.
10. Find out the product name whose starting letter is 'A'.
11. Find out the clients name name whose last letter is 'M'.
12. Find out the clients who stay in state Tamil Nadu and city Coimbatore.
13. List the products in sorted order of their description.
14. List the product which is highest in Selling Price
15. List the Product Information whose Profit Percent is very low.
16. Increase the profit percentage of Appl Monitor to 8%. Update the Selling and Cost Price accordingly.
17. Calculate the average price of all the products
18. Calculate the minimum price of products.
19. Determine the maximum and minimum prices. Rename the title as 'max_price' and min_price respectively.
20. Count the number of products having price greater than or equal to 15000
21. Add a new column phone_no in the client_master table and update appropriate value to it.
22. Rename the table Buyer as Client.
23. Remove the Column adddress2 from Buyer (Client) table and modify address1 limit to varchar(255)
24. Write a SQL statement to rename the column name address1 to address.
25. Add a new column 'Type of Usage' (Commercial / Domestic) to the table Buyer (Client) and add appropriate values to it.