AMRITA VISHWA VIDYAPEETHAM

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

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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 : Evaluation Assignment 1 - 30.08.2022

Rubrics : **Table Creation and Value Insertion: 5marks**

Query Execution: 20 marks

Total Marks : **25 (Converted to 10)**

Submission Mode through : MS Forms.

Form Link : https://forms.office.com/r/UQJhX0UzHZ

Deadline for Submission : 30/08/2022 4.45 PM

CREATE THE FOLLOWING TABLE AND MANIPULATE THE BELOW GIVEN SQL COMMANDS

TABLE NAME: SALESMAN

Column	Null ?	Type
SALESMAN_ID	NOT NULL	NUMBER
NAME	-	VARCHAR2(25)
CITY	-	VARCHAR2(25)
COMMISSION	-	NUMBER(2,2)

TABLE NAME: CUSTOMER

Column	Null ?	Type
CUSTOMER_ID	NOT NULL	NUMBER
CUST_NAME	-	VARCHAR2(25)
CITY	-	VARCHAR2(25)
GRADE	-	NUMBER
SALESMAN_ID	-	NUMBER

TABLE NAME: ORDERS

Column	Null?	Type
ORD_NO	NOT NULL	NUMBER
PURCH_AMT	-	NUMBER(5,3)
ORD_DATE	-	DATE
CUSTOMER_ID	-	NUMBER
SALESMAN_ID	-	NUMBER

VALUES:

Table name: SALESMAN

SALESMAN_ID	NAME	CITY	COMMISSION
1001	zavier	new york	0.11
1002	zenpaul	denmark	0.23
1003	alen	chicago	0.45
1004	boby	new delhi	0.33
1005	cheran	denmark	0.24
1006	alex	new york	0.21

Table name: CUSTOMER

CUSTOMER_ID	CUST_NAME	CITY	GRADE	SALESMAN_ID
2001	nicklado	new york	100	1001
2002	ritwik	denmark	200	1003
2003	sachin	chicago	300	1002
2004	dora	new delhi	100	1004
2005	alwin	denmark	100	1005
2006	simon	chicago	200	1002
2007	rohan	pitsberg	200	1003
2008	aswin	pitsberg	300	1006

Table name: ORDERS

ORD_NO	PURCH_AMT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
1	1000	01-FEB-2012	2001	1001
2	2000	01-JAN-2012	2002	1003
3	3000	01-MAR-2012	2003	1002
4	4000	01-JUL-2012	2004	1004
5	5000	01-DEC-2012	2005	1005
6	1000	01-MAR-2012	2006	1006
7	2500	01-NOV-2012	2007	1003
8	3000	01-SEP-2012	2008	1006
9	5000	02-FEB-2012	2001	1001
10	5000	15-DEC-2012	2001	1001

Questions:

1. Identify the Purchase_amount between 2000 to 5000 and print the ord_no, purchase_amount and customer city
2. Find the commission associated to each customer and salesman and display customer name, salesman name, commission percentile
3. Identify the salesman who fixed commission above 20% and display salesman name, customer name, commission

4. Display the customer name, customer city, salesman name , salesman city where condition is salesman city != customer city
5. Display the following information of all the orders like order number, order date, purchase_amt, Customer Name, Salesman name.
6. Join all the 3 tables and display the complete information from all tables in such a way that the columns should not repeat.
7. Sort the table based on the Customer_id in ascending. Display customer name, customer city, grade, salesman, salesman city
8. Display the information of salesperson who worked with more than one customer. Fetch the Salesman name, salesman city customer name customer city
9. Update the commission of all rows by 0.20. Eg: .011+.20=0.31
10. Modify the column name CUSTOMER_ID and SALESMAN_ID as varchar(25) Accept few varchar values to the appropriate tables.