Practical-1 : DDL operations on Relational Schema

**Date:-06/12/2024**

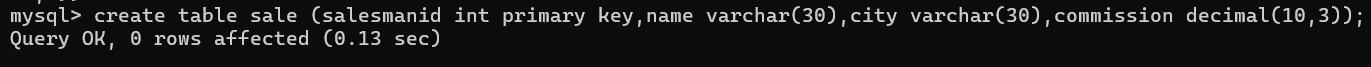
**Write-up:-**

* Codd’s 12 rules
* RDBMS vs DBMS
* Types of attributes
* Types of Keys
* ERD
* Constraints
* DDL

Design the following schema and execute the following queries on it:

A screen shot of a computer

Description automatically generated



A screen shot of a computer

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Description automatically generated

A computer code on a black background

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A black screen with white text

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A screenshot of a computer

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A screen shot of a computer

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A screenshot of a computer screen

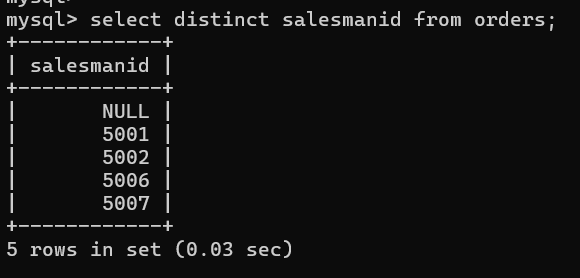
Description automatically generated

1. Display name and commission for all the salesmen.

A screen shot of a computer program

Description automatically generated

1. Retrieve salesman id of all salesmen from orders table without any repeats.



1. Display names and city of salesman, who belongs to the city of Paris.

A black screen with white text

Description automatically generated

1. Display all the information for those customers with a grade of 200.

A black screen with white text

Description automatically generated

1. Display the order number, order date and the purchase amount for order(s) which will be delivered by the salesman with ID 5001

A computer screen with numbers and lines

Description automatically generated

1. Display all the customers, who are either belongs to the city New York or not had a grade above 100.

A screenshot of a computer screen

Description automatically generated

1. Find those salesmen with all information who gets the commission within a range of 0.12 and 0.14.

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Description automatically generated

1. Find all those customers with all information whose names are ending with the letter 'n'.

A screenshot of a computer

Description automatically generated

1. Find those salesmen with all information whose name containing the 1st character is 'N' and the 4th character is 'l' and rests may be any character.



1. Find that customer with all information who does not get any grade except NULL.

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Description automatically generated

1. Find the total purchase amount of all orders.

**A screen shot of a computer

Description automatically generated**

1. Find the number of salesman currently listing for all of their customers.

A screenshot of a computer program

Description automatically generated

1. Find the highest grade for each of the cities of the customers.

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Description automatically generated

1. Find the highest purchase amount ordered by each customer with their ID and highest purchase amount.

A screenshot of a computer screen

Description automatically generated

1. Find the highest purchase amount ordered by each customer on a particular date with their ID, order date and highest purchase amount.

A screenshot of a computer screen

Description automatically generated

1. Find the highest purchase amount on a date '2012-08-17' for each salesman with their ID.

A computer screen with white text

Description automatically generated

1. Find the highest purchase amount with their customer ID and order date, for only those customers who have the highest purchase amount in a day is more than 2000.
2. Write a SQL statement that counts all orders for a date August 17th, 2012.