MySQL

Practice – 2

Overview

This practice enables your understanding of querying a database.

- *Understand the capabilities of SELECT statement.*
- *Perform projection and selection.*
- *Use arithmetic operators and understand their precedence.*
- *Using comparison operators for selection.*
- *Using Pattern Matching operators for selection.*
- *Building compound conditions using logical operators.*

Hands-on

1. Select the database “pubs”

2. View the structure of the “publishers” table.

3. Write appropriate queries for the following:

    a. Display publisher’s ID, name from the “publishers” table.
    b. Display all data from the “publishers” table.
    c. Distinct countries from the “publishers” table.
    d. Display publisher’s ID, name from the “publishers” table. Make sure that publishers ID column has an alias as “Publishers Identity” and the publishers name column has an alias as “Publishers Name”.
    e. Display the publishers ID and name with a string literal as shown below:

        0736 Publisher Name is : New Moon Books

        Moreover, ensure that the column has a single heading as “ID and Name”

4. Write appropriate queries for the following tasks using “titles” table.

    a. Display the identity, name and price of different titles.
    b. Display the identity, price, 5 dollars additional price, totals sales, five times the total sales.

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c. Record your observation for the above executed query which have arithmetic expression columns.
d. Re-write the above query such that, 5 dollars additional price column is named as "Revised Price" and five times the total sales as "Forecasted Sales"
e. Record your observation for columns which have NULL value as their data.

5. Write a query which display all the publishers data for state is 'MA'

6. Write a query which displays all the publishers' data from USA country.

7. Write a query which displays the title and price of only those titles where the price is more than or equal to $20.

8. Write a query which displays the title and published date for those titles which were published on 12th June 1991.

9. Re-run the above query for titles published on or after 30th June 1991

10. Write a query to display all titles which fall in the 'Business' type category.

11. Re-run the above query for all titles which fall in the 'Psychology' type category.

12. Write a query which displays all the titles where the advance is in the range of 2000 and 5000. How do you confirm that the query is displaying the correct set of rows?

13. Repeat the above the advance is not in the range of 4000 and 5000.

14. Write a query which displays all the publishers who live in State MA or DC.

15. Repeat the above query which displays all the publishers who are not from MA or DC states.

16. Write a query which displays all the publishers who are from Germany or France using (a) logical operator (b) using list operator.

17. Write a query which display the titles where the total sales is NIL i.e. NULL

18. Write a query which displays the title, price and type for those titles where the type is either 'Business' or 'Modern Cooking' and price is more than $10.

19. Write a query which displays the titles in which the type of the book starts with the three characters 'bus' using the character pattern match operator.

20. Write a query which displays the publishers details in which the country name is a three character long and starts with ‘us’. The third character can be any thing. Use the character pattern match operator.

21. Write a query which displays the title and its identity which have the very first character as ‘P’ in its identity. Use the regular expression operator.

22. Repeat the above query where the title identity has either ‘P’ or ‘M’ as the first character.

23. Write a query which displays the title and its identity which do not have ‘P’ or ‘M’ as the first character in their identity.

24. Write a query which displays the title and its identity which has ‘C’ as the second character in its identity and remain character could be any characters. Perform this task using (a) LIKE operator (b) REGEXP operator.

25. Write a query which displays the title and its identity where the title end with an exclamation symbol (!).

26. In the authors table, the author’s identity is of the format 999-99-9999. Write a query which display the author’s identity, first name and last name where the author’s identity has 72 as its middle part.

27. Repeat the above query, where the middle part of the author’s identity is in the range of 50 to 89.

28. Write a query which displays the author’s identity, first name, and address. Moreover the author’s identity should have either 08 or 80 in its middle part and the address should end with ‘Av.’

29. Write a query which displays the address, city and state details of the authors. However ensure that the city’s last letter is a vowel.

30. Repeat the above query, where the contract is not equal to zero and moreover the state is ‘CA’.