

Test your knowledge:

1. The following SELECT statement executes successfully: (TRUE/FALSE)
SELECT last_name, gender, monthly_income AS income FROM LMS_Customer_M;
2. The following SELECT statement executes successfully: (TRUE/FALSE)
SELECT * FROM LMS_Product_M;
3. There are three coding errors in the following statement. Can you identify them?
SELECT customer_id, last_name, monthly_income x 12 ANNUAL INCOME FROM
LMS_Customer_M;
4. The following SELECT statement executes successfully: (TRUE/FALSE)
select customer_id, designation from LMS_Customer_M where designation = null;

SQL Queries

1. Display the agreement_id, Loan_Amount, Tenure, ROI, Loan_Disbursal_Date from **LMS_Agreement_DTL** with agreement_id appearing first.
2. Provide an alias for Loan_Disbursal_Date as DISBURSAL DATE in the above query
3. Display all the unique designations from the **LMS_Customer_M** table
4. Find loans that have no disbursements recorded. Return Loan Agreement ID.
5. Write a query to display all the loan agreements which have been disbursed in the month of 'March 2020'
6. Write a query to display all the loan agreements whose loan amount is greater than 5lac and ROI is less than 10%
7. Write a query to display all the instalments from **LMS_PAYMENT_DTL** whose status is 'Completed'
8. Write a query to display all the records from **LMS_CHEQUE_DTL** whose Payment mode is either 'Cheque' or Draft'
9. Write a query to fetch all the records from **LMS_TXN_ADVICE_DTL** table whose TxnType is 'Installment'.
10. Write a query to fetch all Product Categories from LMS_Product_Category_M table which are Secured.
11. Write a query to display last_name concatenated with the designation (separated by a comma and a space) from **LMS_Customer_M** table. Name the column 'Customer and Title'

12. Write a query to display all the records from **LMS_CHEQUE_DTL** table sorted descending by Deposit_Date.
13. Write a query to display current date. Label the column DATE.
14. Write a query to display all the records from **LMS_CHEQUE_DTL** table whose cheque_date and deposit_Date are same.
15. Write a query to calculate the Penalty charges from **LMS_REPAYSCH_DTL** table where Installment_Due_Date is less than current_date. Consider putting a penalty of Rs. 100/- per day from Installment_Due_Date.
16. Write a query to calculate the DBR percentage for each customer. The formula to calculate the DBR is

$$\text{DBR} = \frac{\text{totalmonthlyexpense}}{\text{totalmonthlyincome}}.$$

Name the column DBR.
17. Write a query that displays the last name (with the first letter uppercase and all other letters lowercase) and the length of the last name for all customers whose name starts with the letters J, A, or M. Give each column an appropriate label.
18. For each customer, display the first name, last name, and email address. The email address will be composed from the first letter of first name, concatenated with the three last letters of last name, concatenated with @nucleussoftware.com.
19. Write a query to display the date of instalment_amount and date of first instalment
20. Write a query to display all the loan agreements with loan disbursal date in the format January 22, 2001.