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Teradata sql basics pdf

Now you will be able to stay up-to-date on our latest course offerings, promotions, and training discounts. See your inbox for upcoming special offers. Loading Application... Selecting is one of the most commonly used statements. In this tutorial, I will cover the following articles: Two of the main query classifications – from and select Data Type built-in function KA expressions and variations such as ISNULL and COALESCE. * The function names mentioned above are based on SQL Server; Teradata's equivalent function may have the same or different names. Requirements Please follow the post below to configure the sample databases in SQL Server and Teradata if you have no. Query Teradata and SQL Server – Tutorial 0: The preparation from the Task cause to retrieve all employees (StaffID, Name, Anniversary) from employee tables. Query – SQL seveUSE [TD_MS_SAMPLE_DB] GO SELECT Emp.Emp.EmployeeID, Emp.EmployeeName, Emp.Birthday from dbo. Staff; Query - TeradataBASE TD_MS_SAMPLE_DB; Select Emp.Emp EmployeeID, Emp.Emp EmployeeName, Emp.Anniversary from Staff; Comment results have no schema concept in Teradata but Database/User is similar to the schema of SQL Server. Any Teradata User is also a DATABASE, but not ALL THE DATABASES ARE USERS. In Teradata, use 'Database $DatabaseName;' statements to set the default database. The Select Clause Task retrieves all employees (EmployeeID, Name, Anniversary year) from employees tab. Query – SQL SERVERZUSE [TD_MS_SAMPLE_DB] GO SELECT Emp.Emp.EmployeeID, Emp.EmployeeName, YEAR (Emp.Anniversary) AS 'Birthday Year' FROM DBX. Staff; - Or select Emp.Emp EmployeeID, Emp.EmployeeName, YEAR (Emp.Birthday) AS [Birthday Year] from dbo. Staff; Query - TeradataBASE TD_MS_SAMPLE_DB; SELECT Emp.StaffID, Employee Name, EXTRACT (YEAR FROM Emp.Birthday) AS Birthday Year from Staff; Teradata comment results support column alias and have closed and double quotes if there is a space in the name (you can use single quote or [] in SQL Server). The date and time functions in Teradata are not all the same as SQL Server: DAT or CURRENT_DATE – Both show current date. ADD_MONTHS (date, 3) – Add 3 months to the current date. ADD_MONTHS(date,-2) – Subtract 2 months from the current date. TIME or CURRENT_TIME – Both show the current time. EXTRACT(Day FROM Date)- Extract and show the day. EXTRACT(Month FROM Date) – Extract and show months. EXTRACT(Year FROM Date) – Extract and show years. CURRENT_TIMESTAMP – Show combinations of both date and time. EXTRACT (hours from time) – Extract and show hours. EXTRACT (Minutes from Time) – Extract and display Minute.EXTRACT (Second from time) – Extract and display the second time. In Teradata, the standard naming columns are different: Uppercase or lowercase letters (A to Z and a z). Numbers through 9). The special characters $, #, and _. Don't have to start with digits. Must not start with a BOTTOM NOTE. NO keywords can be used as alyases. Alias names cannot double in the same SQL query. Usage of the word AS is optional. If there is a used space, make sure it's closed with only double quotes. In SQL Server, identifiers must follow these rules: The first character must be a letter in the range A via Z (lower or uppercase), underscore (_), at signing (@), or number signs (#). Subsequent characters can include letters, decimal numbers, in signs, dollar signs ($), number signs, or underscores. The identifier cannot be a reserved keyword in T-SQL cannot have embedded spaces, and must not include extra characters. An identifier does not comply with these rules to be delimited, as [2015] is a legal identifier. Data Types please refer to the following link to understand all the data types in SQL Server and Teradata. Both platforms cover the commonly used data types (Exact Numeric, Unicode Character Strings, Approximately numeric, Binary strings, Date and Time, character strings...) while maintaining its own extension/variation. Identity column in SQL Server, identity is commonly used. There are multiple choices: Object Identity Column Sequence Property (ANSI Standard) UNIQUEIDENTIFIER(NEWID() NEWSEQUENTIALID in Teradata, you can also define auto-leverage columns. Query - SQL ServerZ [TD_MS_SAMPLE_DB] GO CREATE TEST TABLE (INT ID IDENTITY(1,1) BY NULL); Query - TeradataBASE TD_MS_SAMPLE_DB; CREATE TABLE TEST (INT ID GENERATED ALWAYS AS IDENTITY (STARTING WITH 1 INSCRIPTION BY 1 MINVALUE -2147483647 MAXVALUE 214748647 NO CYCLES) BY NULL); Format data, please refer to the following link: Date and Time Task function to retrieve all employees (EmployeeID, Name, Age) from employee tables. Query – SQL SERVERZUSE [TD_MS_SAMPLE_DB] GO SELECT Emp.Emp.EmployeeID, Emp.EmployeeName, DATEDIFF(YEAR, Emp.Birthday, CURRENT_TIMESTAMP) AS Age FROM dbo. Staff; Query - TeradataBASE TD_MS_SAMPLE_DB; SELECT Emp.StaffID, Emp.EmploeName, (EXTRACT (YEAR FROM CURRENT_TIMESTAMP) – EXTRACT (YEAR FROM EMP. Anniversary)) AS Age from Staff; Result Character Functions Task Retrieve the information from Employee Table: EmployeeID EmployeeName EmployeeNameLength(Length of the name) EmployeeNameInitials(The first character of the name)EmployeeJobGradeAndSalary(display as 'JobGrade- Salary', e.g.'2 - 150000') SQL - SQL ServerE [TD_MS_SAMPLE_DB] GO SELECT Emp.EmployeeID, Emp.EmployeeName, LEN(EmployeeName) AS EmployeeNameLength, SUBSTRING(EmployeeName,1,1) AS EmployeeNameInitials, CAST(Emp.JobGrade AS VARCHAR(1)) + ' - ' + CAST(Emp.Salary AS VARCHAR(13)) AS EmployeeJobGradeAndSalary FROM dbo. Staff; SQL – TeradataBASE TD_MS_SAMPLE_DB; SELECT Emp.EmployeeID, Emp.Emp EmployeeName, CHARACTER_LENGTH(EmployeeName) AS SUBSTR(EmployeeName,1,1,1) AS EmployeeNameInitials, CAST(CAST(Emp.JobGrade AS INTEGER)AS VARCHAR(2)) || ' - ' || CAST(Emp.Salary AS VARCHAR(13)) AS StaffJobGradeAndSalary from Staff; OrSELECT Emp.Emp EmployeeID, Emp.Emp.Emp EmployeeName, SUBSTRING(EmployeeName from 1 TO 1) AS EmployeeNameLength, SUBSTR(EmployeeName,1,1) AS EmployeeNameinials, CAST(Emp.JobGrade(FORMAT '9')) AS VARCHAR(1)) || ' - ' || CAST((Emp.Salery(FORMAT '9(3),999.99')) AS VARCHAR(13)) AS EmployeeJobGradeAndSale from Staff; Comment results in Teradata, you can also use this clause for substrING: SUBSTRING (EmployeeName from 1 TO 1) To connect string, the operator is '+ in SQL Server while it is '||' in Teradata (similar to Oracle). There are also other similar character functions in Teradata, e.g. UPPER, LOWER, TRIM, LTRIM, RTRIM, LPAD, RPAD... You can find more details in . Case expressions in both Teradata and SQL Server, there are two form expressions CASE: The SIMPLE INSTANCE expression compares an expression to a set of simple expressions to determine the result. The CASE expression evaluates a set of Boolean expressions to determine the outcome. return 'MR + $EmployeeName' return 'Dear MS + $EmployeeName') SQL – SQL seveUSE [TD_MS_SAMPLE_DB] GO SELECT Emp.Emp.EmployeeID, Emp.EmployeeName, CASE WHEN 'I AM WHEN 'Dear MR' + Emp.Emp EmployeeName ELSE 'Dear MS' + Emp.EmployeeName End As [Employee Salute] FROM DBO. Staff; SQL - Teradata SELECT Emp.EmployeeID, Emp.EmployeeName, CASE WHEN Emp.Gendar = 'M' THEN 'Dear MR' || EmployeeName ELSE 'Dear MS' || EmployeeName end as Salutation Employee from Employee; The SQL Server Samples result is the simple version while one of Teradata is following the query format. If you want to evaluate columns with NULL values, you need to use the second format. COALESCE COALESCE is ANSI's standard function. Both SQL Server and Teradata support this function. The COALESCE function accepts an expression list as input and returns the first that is not NULL, or NULL if all are NULLs. COALESCE(, ..., ...,) Task to retrieve the employee id, employee name and employee id manager (shown as character) from Employee Chart; if there is no manger employee id, return 'NULL'; The id manager needs to be displayed in the format <exp1><exp2><expn>'99,999'. SQL – SQL SERVERZUSE [TD_MS_SAMPLE_DB] GO SELECT Emp.Emp.EmployeeID, Emp.EmployeeName, COALESCE(FORMAT(Emp.Emp EmployeeManageEmplorenteyid, '#,#'), 'NULL') AS Manager from dbo. Staff; SQL – TeradataSELECT EMP. EmployeeYID, </exp2> </exp1> </exp1> (FORMAT '99,999'),'NULL') AS Manager from Staff; ISNULL result Has no ISNULL equivalent function in Teradata and you need to use COALESCE. For the previous example, the query can be recruited using ISNULL in SQL Server. SQL – SQL SERVERZUSE [TD_MS_SAMPLE_DB] GO SELECT Emp.Emp.EmployeeID, Emp.EmployeeName, ISNULL(FORMAT(Emp.EmployeeManageManageREmploeyeid, '#,#'), 'NULL') AS Manager from dbo. Staff; The nullability comments in the column may be different when using ISNULL compared to COALESCE in SQL Server. Be careful when you use it as it can affect the execution plan a lot. NULLIF Both platforms are two supported NULLIF functions. NULLIF(col1, col2) If kol1 is equal to kol2, the function returns a NULL; otherwise, it returns the col1 value. The task retrieves the employee id, employee name and employee manager id (shown as character) from Employees tab; if the manager employee id is '10,004', return 'NULL'; The id manager needs to be displayed in the format '99,999'. SQL – SQL SERVERZUSE [TD_MS_SAMPLE_DB] GO SELECT Emp.Emp.EmployeeID, Emp.EmployeeName, NULLIF(FORMAT(Emp.EmploeManagerManageEmploeyid, '#,#'), '10,004') AS Manager FROM dbo. Staff; SQL – TeradataSELECT Emp.EmployeeYID, Emp.EmployeeName, NULLIF(Emp.EmployeeManagerEmployeid(FORMAT '99,999'), 10.004') AS Manager From Employee; Comment Results Contains some other useful variations of Teradata for NULL. NULLIFZERO: This will change a zero value to a NULL value. NULLIFSPACES: This will change a space value to a NULL value. ZEROIFNULL: This will change a NULL value to a zero. ... Summarized As both SQL Server and Teradata are following ansi standard, you can easily convert your T-SQL to TEradata SQL and vice versa. It is recommended to use the Standard ANSI/expression functions so that you can migrate to one and other festivals without damage. In next tutorial, I will demonstrate differences in filtering and sorting data. Info Last edited by Administrator 6 months ago copyright This page is subject to Site Terms. Term.

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