

STEPS

The screenshot shows the SQL Developer interface with a query window titled 'Query 1' containing the following SQL code:

```
# USING COUNTRY TABLE AND PERSON TABLE  
  
SELECT * FROM Country;  
SELECT * FROM Persons;
```

The 'Result Grid' displays the data for the 'Country' table:

Id	Country_name	Population	Area
1	USA	331000000	California
2	India	1380000000	Maharashtra
3	Canada	380000000	Ontario
4	Australia	256000000	New South Wales
5	UK	670000000	London
6	Germany	830000000	Bavaria

The 'Output' pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	19:23:40	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned	0.000 sec / 0.000

A text box on the right states: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

The screenshot shows the SQL Developer interface with a query window titled 'Query 1' containing the following SQL code:

```
# USING COUNTRY TABLE AND PERSON TABLE  
  
SELECT * FROM Country;  
SELECT * FROM Persons;
```

The 'Result Grid' displays the data for the 'Persons' table:

Id	Fname	Lname	Population	Rating	Country_Id	Country_name
1	John	Doe	1000000	4.5	1	USA
2	Jane	Smith	2000000	4.8	2	India
3	Michael	Brown	1500000	4.2	3	Canada
4	Emily	Davis	2500000	3.9	4	Australia
5	James	Wilson	1800000	4	5	UK
6	Anna	Moore	1300000	4.6	6	Germany

The 'Output' pane shows the execution results:

#	Time	Action	Message
1	19:23:40	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned
2	19:24:35	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned

A text box on the right states: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

The screenshot shows the SQL Developer interface with a query window titled 'Query 1' containing the following SQL code:

```
# 1. Add a new column called DOB in Persons table with data type as Date.  
  
ALTER TABLE Persons  
ADD DOB DATE;  
  
UPDATE Persons  
SET DOB = CASE  
WHEN Id = 1 THEN '1990-05-15'  
WHEN Id = 2 THEN '1985-12-22'  
WHEN Id = 3 THEN '2000-03-10'  
WHEN Id = 4 THEN '1992-07-25'  
WHEN Id = 5 THEN '1988-11-30'  
WHEN Id = 6 THEN '1975-06-18'
```

The 'Output' pane shows the execution results:

#	Time	Action	Message
1	19:23:40	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned
2	19:24:35	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned
3	19:24:53	ALTER TABLE Persons ADD DOB DATE	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

A text box on the right states: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

Navigator: CHEMAS

- Filter objects
- entri_dsml_d36
 - Tables
 - country
 - persons
 - Views
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 - school
 - sys
 - testdb

Administration Schemas

Information

No object selected

Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS

Limit to 1000 rows

```

14      WHEN Id = 2 THEN '1985-12-22'
15      WHEN Id = 3 THEN '2000-03-10'
16      WHEN Id = 4 THEN '1992-07-25'
17      WHEN Id = 5 THEN '1988-11-30'
18      WHEN Id = 6 THEN '1975-06-18'
19      WHEN Id = 7 THEN '1999-09-14'
20      WHEN Id = 8 THEN '2001-01-01'
21      WHEN Id = 9 THEN '1993-04-12'
22      WHEN Id = 10 THEN '1980-08-20'
23      WHEN Id = 11 THEN '2005-03-21'
24      WHEN Id = 12 THEN '1996-02-29'
25      END
26 WHERE Id IN (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12);
27

```

SQLAdditions: Automatic color disabled. Use t manually get current caret; toggle autor

Context Help Snippets

Output

Action Output

#	Time	Action	Message
1	19:23:40	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned
2	19:24:35	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned
3	19:24:53	ALTER TABLE Persons ADD DOB DATE	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
4	19:25:21	UPDATE Persons SET DOB = CASE WHEN Id = 1 THEN '1990-05-15' ...	12 row(s) affected Rows matched: 12 Changed: 12 Warnings: 0

Navigator: HEMAS

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No object selected

Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS

Limit to 1000 rows

```

24      WHEN Id = 12 THEN '1996-02-29'
25      END
26 WHERE Id IN (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12);
27
28 # 2. Write a user-defined function to calculate age using DOB.
29
30 DELIMITER $$
31 CREATE FUNCTION Calculate_age (DOB DATE)
32 RETURNS INT
33 DETERMINISTIC
34 BEGIN
35 RETURN TIMESTAMPDIFF(YEAR, DOB, CURDATE());
36 END $$
37 DELIMITER ;

```

SQLAdditions: Automatic color disabled. Use t manually get current caret; toggle autor

Context Help Snippets

Output

Action Output

#	Time	Action	Message
1	19:23:40	SELECT * FROM Country LIMIT 0, 1000	12 row(s) returned
2	19:24:35	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned
3	19:24:53	ALTER TABLE Persons ADD DOB DATE	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
4	19:25:21	UPDATE Persons SET DOB = CASE WHEN Id = 1 THEN '1990-05-15' ...	12 row(s) affected Rows matched: 12 Changed: 12 Warnings: 0
5	19:26:01	CREATE FUNCTION Calculate_age (DOB DATE) RETURNS INT DETERMINISTIC ...	0 row(s) affected

Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS

Limit to 1000 rows

37 DELIMITER ;

38

39 # 3. Write a select query to fetch the Age of all persons using the function that has been created.

40

41 SELECT Id,Fname,Lname, Calculate_age(DOB) AS Age FROM Persons;

Result Grid

	Id	Fname	Lname	Age
1	John	Doe	34	
2	Jane	Smith	38	
3	Michael	Brown	24	
4	Emily	Davis	32	
5	James	Wilson	35	
6	Anna	Moore	49	

Result 3 x

Output

Action Output

#	Time	Action	Message	Duration
2	19:24:35	SELECT * FROM Persons LIMIT 0, 1000	12 row(s) returned	0.000 se
3	19:24:53	ALTER TABLE Persons ADD DOB DATE	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 se
4	19:25:21	UPDATE Persons SET DOB = CASE WHEN Id = 1 THEN '1990-05-15' ...	12 row(s) affected Rows matched: 12 Changed: 12 Warnings: 0	0.000 se
5	19:26:01	CREATE FUNCTION Calculate_age (DOB DATE) RETURNS INT DETERMINISTI...	0 row(s) affected	0.063 se
6	19:26:19	CREATE FUNCTION Calculate_age (DOB DATE) RETURNS INT DETERMINISTI...	Error Code: 1304. FUNCTION Calculate_age already exists	0.016 se
7	19:26:39	SELECT Id,Fname,Lname, Calculate_age(DOB) AS Age FROM Persons LIMIT 0, 1...	12 row(s) returned	0.016 se

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Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS

Limit to 1000 rows

41 SELECT Id,Fname,Lname, Calculate_age(DOB) AS Age FROM Persons;

42

43 # 4. Find the length of each country name in the Country table.

44

45 SELECT Id, Country_name,length(Country_name) AS Namelength FROM Country;

Result Grid

	Id	Country_name	Namelength
1	USA	3	
2	India	5	
3	Canada	6	
4	Australia	9	
5	UK	2	
6	Germany	7	

Result 4 x

Output

Action Output

#	Time	Action	Message	Duration
3	19:24:53	ALTER TABLE Persons ADD DOB DATE	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031
4	19:25:21	UPDATE Persons SET DOB = CASE WHEN Id = 1 THEN '1990-05-15' ...	12 row(s) affected Rows matched: 12 Changed: 12 Warnings: 0	0.000
5	19:26:01	CREATE FUNCTION Calculate_age (DOB DATE) RETURNS INT DETERMINISTI...	0 row(s) affected	0.063
6	19:26:19	CREATE FUNCTION Calculate_age (DOB DATE) RETURNS INT DETERMINISTI...	Error Code: 1304. FUNCTION Calculate_age already exists	0.016
7	19:26:39	SELECT Id,Fname,Lname, Calculate_age(DOB) AS Age FROM Persons LIMIT 0, 1...	12 row(s) returned	0.016
8	19:27:12	SELECT Id, Country_name,length(Country_name) AS Namelength FROM Country L...	12 row(s) returned	0.000

Automatic context disabled. Use the to manually get help current caret posit toggle automatic

Query 1 SORTING AND GROUPING DA... JOINS AND UNION FUNCTIONS

Limit to 1000 rows

45 SELECT Id, Country_name,length(Country_name) AS Namelength FROM Country;

46

47 # 5. Extract the first three characters of each country's name in the Country table.

48

49 SELECT SUBSTRING(Country_name,1,3) AS First_Three_Chacters FROM Country;

Result Grid

	First_Three_Chacters
1	USA
2	Ind
3	Can
4	Aus
5	UK
6	Ger

Result 5 x

Output

Action Output

#	Time	Action	Message	Duration
4	19:25:21	UPDATE Persons SET DOB = CASE WHEN Id = 1 THEN '1990-05-15' ...	12 row(s) affected Rows matched: 12 Changed: 12 Warnings: 0	0.00
5	19:26:01	CREATE FUNCTION Calculate_age (DOB DATE) RETURNS INT DETERMINISTI...	0 row(s) affected	0.06
6	19:26:19	CREATE FUNCTION Calculate_age (DOB DATE) RETURNS INT DETERMINISTI...	Error Code: 1304. FUNCTION Calculate_age already exists	0.01
7	19:26:39	SELECT Id,Fname,Lname, Calculate_age(DOB) AS Age FROM Persons LIMIT 0, 1...	12 row(s) returned	0.01
8	19:27:12	SELECT Id, Country_name,length(Country_name) AS Namelength FROM Country L...	12 row(s) returned	0.00
9	19:27:32	SELECT SUBSTRING(Country_name,1,3) AS First_Three_Chacters FROM Court...	12 row(s) returned	0.00

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Navigation pane

Filter objects

entri_dsml_d36

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administration Schemas

Information

No object selected

Object Info Session

Query 1 SORTING AND GROUPING DA JOINS AND UNION FUNCTIONS

Limit to 1000 rows

SQL Additions

54

55 SELECT Id, Country_name,

56 ucase(Country_name) AS UppercaseName,

57 lcase(Country_name) AS LowercaseName

58 FROM Country;

59

Result Grid

Filter Rows: Export: Wrap Cell Content: F5

	Id	Country_name	UppercaseName	LowercaseName
1	1	USA	USA	usa
2	2	India	INDIA	india
3	3	Canada	CANADA	canada
4	4	Australia	AUSTRALIA	australia
5	5	UK	UK	uk
6	6	Germany	GERMANY	germany

Result 7 Read Only Context Help Snippets

Form Editor

Output

Action Output

#	Time	Action	Message
6	19:26:19	CREATE FUNCTION Calculate_age (DOB DATE) RETURNS INT DETERMINISTI...	Error Code: 1304. FUNCTION Calculate_age already exists
7	19:26:39	SELECT Id, Fname, Lname, Calculate_age(DOB) AS Age FROM Persons LIMIT 0, 1...	12 row(s) returned
8	19:27:12	SELECT Id, Country_name, length(Country_name) AS Namelength FROM Country L...	12 row(s) returned
9	19:27:32	SELECT SUBSTRING(Country_name,1,3) AS First_Three_Characters FROM Count...	12 row(s) returned
10	19:28:08	SELECT SUBSTRING(Country_name,1,3) AS First_Three_Characters FROM Count...	12 row(s) returned
11	19:28:33	SELECT Id, Country_name, ucase(Country_name) AS UppercaseName, lcase(Co...	12 row(s) returned

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