

Exercise 4: Functions

Output:

Scenario 1:

Calculate Age:

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' tree with 'banksystem' expanded, showing tables like 'accounts', 'customers', 'employees', 'loans', and 'transactions'. The main editor window shows a SQL script for creating a function 'CalculateAge' and executing it. The script is as follows:

```
6 DETERMINISTIC
7 BEGIN
8     RETURN TIMEDIFF(YEAR, p_dob, CURDATE());
9 END$$
10
11 DELIMITER ;
12
13 -- Calculating the age
14 SELECT Name, DOB, CalculateAge(DOB) AS Age FROM Customers;
```

The 'Result Grid' below the script shows the output of the query:

Name	DOB	Age
John Doe	1935-05-15	90
Jane Smith	1990-07-20	34
Suresh Kumar	1958-02-11	67
Lakshmi Iyer	1998-09-05	26
Rahul Mehta	1979-04-23	46
Meera Rao	1940-12-30	84
Neha Sharma	1995-03-12	30

The bottom panel shows the 'Output' tab with the following results:

#	Time	Action	Message	Duration / Fetch
90	18:44:55	CREATE FUNCTION CalculateAge(p_dob DATE) RETURNS INT DETERMINISTIC BEGIN...	0 row(s) affected	0.000 sec
91	18:45:00	SELECT Name, DOB, CalculateAge(DOB) AS Age FROM Customers LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec