Macros

Macros

- A macro is a set of SQL statements which are stored and executed by calling the macro name.
- The definition of macros is stored in Data Dictionary. Users only need EXEC privilege to execute the macro.
- Users do not need separate privileges on the database objects used inside the macro.

Macros

- Macro statements are executed as a single transaction:
 - If one of the SQL statements fails, then all the statements are rolled back.
 - Macros can accept parameters.
 - Macros can contain DDL statements, but that should be the only statement.

Create Macros

Example

```
CREATE MACRO Get_Emp AS
(
   SELECT
   EmployeeNo,
   FirstName,
   LastName
   FROM
   employee
   ORDER BY EmployeeNo;
);
```

```
EXEC Get_Emp;
```

Parameterized Macros

Macro parameters are referenced with :Param; .

```
CREATE MACRO Get_Emp_Salary(EmployeeNo INTEGER) AS
(
   SELECT
   EmployeeNo,
   NetPay
   FROM
   Salary
   WHERE EmployeeNo = :EmployeeNo;
);
```

```
EXEC Get_Emp_Salary(101);
```