# JOBSHEET Basis Data Lanjut



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Class 2I / 01

# STUDY PROGRAM D-IV TEKNIK INFORMATIKA INFORMATION TECHNOLOGY MAJOR POLITEKNIK NEGERI MALANG

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```
-- Check the data
                                                               numbers of
    SELECT empid, firstname, mgrid FROM HR.Employees;
    -- How can we change the mgrid of certain employe?? Use UF
    UPDATE HR.Employees SET mgrid = 7 WHERE empid = 8;
   □ALTER PROCEDURE HR.ChangeMgr (@EmployeeId AS INT, @NewMgr]
   ⊨BEGIN
        -- Make sure that the @EmployeeID exists
        DECLARE @EmpName AS VARCHAR(50) = (SELECT firstname FF a 1-time
        -- Also, make sure thet the @NewMgrID exists
95 %
     - ▼ - (
empid firstname
                   mgrid
     1
           Sara
                   NULL
2
           Don
                   1
     3
           Judy
                   2
3
     4
           Yael
                   3
5
           Sven
           Paul
6
     7
           Russell
7
                   5
8
     8
           Maria
                   3
9
           Zoya
```

### 3.

- -- BRANCHING
- -- Is a facility that enables us to execute or not execute any code based on certain conditions
- -- In T-SQL we use the IF..ELSE keyword.
- $\mbox{--}$  Example: Display wether a product is an EXPENSIVE or CHEAP one based on comparison with AVG value of all price
- -- We are using the Production.Products table

|    | productid | productname   | supplierid | categoryid | unitprice | discontinued |
|----|-----------|---------------|------------|------------|-----------|--------------|
| 1  | 1         | Product HHYDP | 1          | 1          | 18.00     | 0            |
| 2  | 2         | Product RECZE | 1          | 1          | 19.00     | 0            |
| 3  | 3         | Product IMEHJ | 1          | 2          | 10.00     | 0            |
| 4  | 4         | Product KSBRM | 2          | 2          | 22.00     | 0            |
| 5  | 5         | Product EPEIM | 2          | 2          | 21.35     | 1            |
| 6  | 6         | Product VAIIV | 3          | 2          | 25.00     | 0            |
| 7  | 7         | Product HMLNI | 3          | 7          | 30.00     | 0            |
| 8  | 8         | Product WVJFP | 3          | 2          | 40.00     | 0            |
| 9  | 9         | Product AOZBW | 4          | 6          | 97.00     | 1            |
| 10 | 10        | Product YHXGE | 4          | 8          | 31.00     | 0            |
|    | Price Ave | erage Price   |            |            |           |              |
| 1  | 30 28     | 3.8663        |            |            |           |              |

```
5.
-- ROUTINE
-- Is element of control of flow that enables us to execute a particular
block that processes inputs to become
-- certain result or goal by calling its name.
-- ROUTINE - FUNCTION
-- Is a routine that always have a return value
-- Example: A function to determine that a particular product id is
expensive or CHEAP just like the previous case.

    Messages

     Msg 2714, Level 16, State 3, Procedure fn_check_price, Line 1 [Batch Start Line 62] There is already an object named 'fn_check_price' in the database.
     Completion time: 2024-12-10T23:32:43.9027875+07:00
6.
             -- Call the function:
          SELECT Production.fn_check_price(7);
             -- You can also call it like this:
          ≐SELECT
                    productid,
                    productname,
                    unitprice,
                    Production.fn_check_price(productid)
             FROM
                 ▼ 4
     95 %
      (No column name)
              EXPENSIVE
             productid,
productname
unitprice,
             Production.fn_check_price(productid)
            Production.Products;
          -- ROUTINE - PROCEDURE

-- Procedure is a routine that doesnt have any return value.

-- In SQL Server it is known as STORED PROCEDURE.

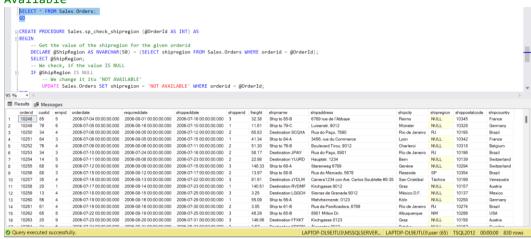
-- Although stored procedure cannot return value, it can howeve

-- Example: Create a stored procedure to check whether the valu

-- tables is empty or not. If it is empty, replace it
     productid productname
1 Product HHYDP
                            unitprice (No column name)
18.00 CHEAP
                 Product RECZE
                             19.00
                                    CHEAP
                 Product IMEHJ
Product KSBRM
                             10.00
22.00
                                    CHEAP
                 Product EPEIM
                             21.35
                                    CHEAP
                 Product VAIIV
                             25.00
                                    CHEAP
                 Product HMLNI
Product WVJFP
                             30.00
40.00
                                    EXPENSIVE
EXPENSIVE
                 Product AOZBW
                            97.00
                                    EXPENSIVE
                 Product YHXGE 31.00
Product QMVUN 21.00
Product OSFNS 38.00
                                    EXPENSIVE
CHEAP
EXPENSIVE
                 Product POXFU 6.00
                                    CHEAP
                 Product PWCJB
Product KSZOI
Product PAFRH
                                    CHEAP
CHEAP
                                    CHEAP
```

- 8. -- ROUTINE PROCEDURE
- -- Procedure is a routine that doesnt have any return value.
- -- In SQL Server it is known as STORED PROCEDURE.
- -- Although stored procedure cannot return value, it can however change the data in our database.
- -- Example: Create a stored procedure to check whether the value of 'shipregion' column in Sales.Orders
- -- tables is empty or not. If it is empty, replace it with 'Not

## Available'



### 9. -- Calling procedure

EXECUTE Sales.sp\_check\_shipregion @OrderId=10248;

# SELECT \* FROM Sales.Orders;

