# SQL Update

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## SQL UPDATE WORKSHOP

- Agenda
  - SQL review
  - CTE , Recursive, Hierarchical queries
  - SQL system access with SQL Services





#### **CTE:**Common Table Expression

WITH

```
ta AS (SELECT COUNT(*) AS tota
    FROM AOFSQL_5/AOFDOCF ),
tp AS (SELECT dodonm, COUNT(*) AS totp
    FROM AOFSQL_5/AOFDOCF
    GROUP BY dodonm)
SELECT tp.dodonm, totp, tota,
CAST(totp*100.00/tota AS DECIMAL(5, 2)) as U
    FROM tp, ta
    ORDER by U DESC, tp.dodonm
```











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#### **Hierarchical indendation**

```
Ordering by calling, called
•
  Create the order string
WITH
  PGMTREE (CALLING, CALLED, path)
AS (
  SELECT WHPNAM, WHFNAM ,
cast(concat(whpnam , whfnam)as varchar(100)) as path
       FROM COMMON.PGMREF
       WHERE WHPNAM = 'CMNU01'
  UNION ALL
   SELECT WHPNAM, WHFNAM , concat(t.path , x.whfnam)
       FROM COMMON.PGMREF x
        INNER JOIN PGMTREE T
        ON CALLED= x.WHPNAM )
SELECT * FROM PGMTREE
order by path
```



## **Hierarchical indendation**

```
    Display indentation

WITH
  PGMTREE ( CALLING, CALLED, path , level)
AS (
 SELECT WHPNAM, WHFNAM ,
    cast(concat(whpnam , whfnam)as varchar(100)) as path,0
    FROM COMMON.PGMREF
   WHERE WHPNAM = 'CMNU01' AND WHOBJT = 'P'
  UNION ALL
   SELECT WHPNAM, WHFNAM , concat(t.path , x.whfnam) , level+1
     FROM COMMON.PGMREF x
    INNER JOIN PGMTREE T
       ON CALLED= x.WHPNAM )
SELECT CONCAT(concat(SPACE(LEVEL*3), CALLING) , called)
       FROM PGMTREE
       ORDER BY path
```



### **VALUES** samples

- Values(WEEK\_ISO(Current\_Date))
- VALUES((Current\_date), (DAYNAME(Current\_Date)))
- VALUES('Date ISO', char(Current\_date,ISO)), ('Date EUR', char(Current\_date, EUR)), ('Date USA', char(Current\_date, USA))

VALUES example	
<pre>select * from   (VALUES('Date ISO', char(Current_date,ISO)),   ('Date EUR' , char(Current_date, EUR)),   ('Date USA' , char(Current_date, USA))) Tb (Format, sample)</pre>	







