

Seminar 3

Stored Procedures, Global Variables, Dynamic Execution, the OUTPUT clause, Cursors in SQL SERVER

I Stored Procedures

- contains a group of SQL statements

CREATE PROCEDURE (sau PROC) usp - Name

AS

BEGIN

END

GO -- batch separator

dacă declar variabile
îmînță de GO, după GO nu se poate
mai scrie variabile

EXEC usp - Name -----

usp - Name -----

EXECUTE

ex. CREATE PROC usp - HotelName
AS
SELECT Fname
FROM Hotel
GO

EXEC usp - HotelName ← param

ALTER PROC usp - HotelNames (@no_stars DECIMAL (0,2))
AS

SELECT Fname
FROM Hotel

WHERE STARS = @no_stars

GO

EXEC usp - HotelNames 5.0

-- Counting hotels

CREATE PROC usp - H (@no_stars DECIMAL (10, 2) = 3.0, @NoHotels
INT OUTPUT)

AS

SELECT @NoHotels = COUNT (*)

FROM Hotel

WHERE stars = no_stars

GO

```
DECLARE @ NoH INT=0  
SET @ NoH =0
```

we can't create
our global var.

II Global Variables

eg. @@ERROR

@@IDENTITY

@@ROWCOUNT

@@SERVERNAME

@@SPID (process id of the current session)

@@VERSION

III Dynamic Execution

```
EXEC ('select * from Hotel')
```

eg. declare @id_nql varchar(1000)='27')

declare @select_nql varchar(max)

set @select_nql = 'select * from Hotel where hid = '+@id_nql

exec (@select_nql)

IV Output Clause

- access inserted, deleted

- UPDATE → inserted + deleted

- INSERT → inserted

- DELETE → deleted

eg. declare @LogTable Table (hid INT, hname VARCHAR(200), no_rooms-
old INT, no_rooms-new INT, username VARCHAR(100), dateofupdate DATETIME)

UPDATE Hotel

SET no_rooms = 100

OUTPUT inserted.hid, inserted.hname, deleted.no_rooms, inserted.no_rooms

INTO @LogTable

WHERE lid = 27

select * from @LogTable

(for delete and insert we write them instead of update)

V Cursors

- inefficient

DECLARE CURSOR

↳ specify the result set, using a select stmt
↓
it won't get executed

OPEN

↳ the associated select stmt will get executed

FETCH

FIRST

LAST

NEXT

PRIOR

ABSOLUTE m

↳ int

m > 0 - mth row starting from the 1st row
m < 0 - mth row before the last row
m = 0 - no rows

RELATIVE m, m - INT

m > 0 - the mth row after the current row

m < 0 - mth row before the current row

m = 0 - cursor is set on the current row

UPDATE / INSERT

CLOSE - some resources are freed eg. the result set.

DEALLOCATE

