

# LAB 6 SOLUTIONS

## EXERCISE 1.

Q1. Delete the Administration department and all of its subdepartments without using transactions.

1. EXEC SP\_MSFOREACHTABLE "ALTER TABLE ? NOCHECK CONSTRAINT ALL"  
--Now drop foreign key constraints manually from each table

```
DELETE FROM DEPARTMENTS WHERE NAME='ADMINISTRATION' OR SUBDEPTOF IN  
(SELECT CODE FROM DEPARTMENTS WHERE NAME='ADMINISTRATION');
```

Q2. Using a transaction, delete the Administration department and all of its subdepartments

2. BEGIN TRANSACTION T1  
SAVE TRANSACTION S1  
EXEC SP\_MSFOREACHTABLE "ALTER TABLE ? NOCHECK CONSTRAINT ALL"  
--Now drop foreign key constraints manually from each table

```
DELETE FROM DEPARTMENTS WHERE NAME='ADMINISTRATION' OR SUBDEPTOF IN  
(SELECT CODE FROM DEPARTMENTS WHERE NAME='ADMINISTRATION');  
SELECT * FROM DEPARTMENTS  
ROLLBACK TRANSACTION S1  
COMMIT;
```

## EXERCISE 2.

Q1 Write a T-SQL code to insert data into the temp table. If the entered number is greater than 25 ignore it. If the entered number is less than 25 then insert one row for each number starting from one. Insert (1) in (Num\_store), (2) in (Num\_store) & so on for all the numbers except 5, 10, 15 & 20. As soon as the number becomes five enter (5, FIVE) in (Num\_store, Char\_store). If it becomes 10 enter (10, Ten) in (Num\_store, Char\_store). If it becomes 15 enter (15, FIFTEEN, SYSDATE) in (Num\_store, Char\_store, Date\_store) & when it becomes 20 enter (20, TWENTY) in (Num\_store, Char\_store).

```
1. (a) SELECT *
FROM sys.objects
WHERE name = N'<schema_name, sysname, spt_values>'
```

----Execute query (a) first then press Ctrl+Shift+M and give input. Then execute query (b) then (c).

```
(b) create table temp1 (NUM_STORE numeric (4), CHAR_STORE varchar (100),
DATE_STORE date);
```

```
(c) DECLARE
@NUM INTEGER,
@COUNTER INTEGER;
```

```
BEGIN
```

```
- SET THE WIDTH EQUAL TO THE AREA DIVIDED BY THE
HEIGHT SET @NUM = N'<schema_name, sysname, spt_values>'
```

```
IF @NUM < 25
```

```
SET @COUNTER = 0;
```

```
WHILE @COUNTER <= @NUM
```

```
BEGIN
```

```
SET @COUNTER = @COUNTER + 1;
```

```
IF @COUNTER = 5
```

```
INSERT INTO TEMP1 (NUM_STORE, CHAR_STORE) VALUES (@COUNTER,
'FIVE'); ELSE IF @COUNTER = 10
```

```
INSERT INTO TEMP1 (NUM_STORE, CHAR_STORE) VALUES (@COUNTER,
'TEN'); ELSE IF @COUNTER = 15
```

```
INSERT INTO TEMP1 (NUM_STORE, CHAR_STORE, DATE_STORE)
VALUES (@COUNTER, 'FIFTEEN', SYSDATETIME());
```

```
ELSE IF @COUNTER = 20
```

```
INSERT INTO TEMP1 (NUM_STORE, CHAR_STORE) VALUES (@COUNTER,
'TWENTY');
```

```
ELSE
```

```
INSERT INTO TEMP1 (NUM_STORE) VALUES (@COUNTER);
```

```
END
```

```
END;
```

```
select * from temp1
```

```
1. END IF DOES NOT EXIST IN MICROSOFT SQL
```

```
2. := DOES NOT EXIST
```

```
3. FOR LOOP DOES NOT EXIST
```

```
4. NO SEMICOLON AFTER END IN WHILE LOOP
```

```
5. & CANNOT BE USED FOR USER PROMPT
```

```
6. SET SHOULD BE USED WHILE SETTING VARIABLES.
```

Note: Solutions provided are for your own reference and may have other possible variations or interpretations. In case of any query, kindly contact your lab instructors.