Database

Tahaluf Training Center 2021

Day 3

ISNULL()

In SQL Server (Transact-SQL), the ISNULL function lets you return an alternative value when an expression is NULL.

```sql
ISNULL ( check_expression ,
replacement_value )

SELECT Description, DiscountPct, MinQty,
ISNULL(MaxQty, 0.00) AS 'Max Quantity'
FROM Sales.SpecialOffer;
```

Day 3

SQL STORED PROCEDURES

a set of SQL statements that can be executed on the database

```
CREATE PROC What_DB_is_this
AS
SELECT DB_NAME() AS ThisDB;
```

```
EXEC What_DB_is_this;
```

```
CREATE PROC What_DB
AS
SELECT DB_NAME() AS ThisDB;
```

```
EXEC What_DB;
```

SQL STORED PROCEDURES

```sql
CREATE PROCEDURE HumanResources.uspGetAllEmployees
AS
SELECT LastName, FirstName, JobTitle, Department
    FROM HumanResources.vEmployeeDepartment;
GO


SELECT * FROM HumanResources.vEmployeeDepartment;
```

```sql
EXECUTE HumanResources.uspGetAllEmployees;
GO
-- Or
EXEC HumanResources.uspGetAllEmployees;
GO
-- Or, if this procedure is the first statement within a
batch:
HumanResources.uspGetAllEmployees;
```

SQL STORED PROCEDURES

```sql
CREATE PROCEDURE dbo.uspMultipleResults
AS
SELECT TOP(10) BusinessEntityID, Lastname, FirstName FROM
Person.Person;
SELECT TOP(10) CustomerID, AccountNumber FROM Sales.Customer;
GO


EXECUTE dbo.uspMultipleResults
```

```
CREATE PROCEDURE ProcGetEmployee
  @BusinessEntityID int
AS
-- Define the query to be run
SELECT *
FROM HumanResources.Employee
WHERE BusinessEntityID  = @BusinessEntityID
```

```
exec ProcGetEmployee 100
```

```sql
CREATE PROCEDURE getCurrentEmployeebyFNLN
 @LastName nvarchar(50),
 @FirstName nvarchar(50),
 @Department nvarchar(50)
AS
-- Define the query to be run
SELECT FirstName, LastName, Department
FROM HumanResources.vEmployeeDepartment
WHERE FirstName = @FirstName AND LastName = @LastName
AND Department  = @Department
```

```sql
exec getCurrentEmployeebyFNLN
 100
```

```
CREATE PROCEDURE getAllEmployeebyDept
```

Day 3

CREATE DATABASE myDatabase;

DROP DATABASE myDatabase


```sql
CREATE TABLE Employees(
 Id int identity(1,1) primary key
not null,
 FName varchar(20) not null,
 LName varchar(20) not null,
 PhoneNumber varchar(10) not null
);
```

```
ALTER TABLE Gender ADD
GenderID PRIMARY KEY (ID)


ALTER TABLE Employees
ALTER COLUMN StartingDate DATETIME
NOT NULL DEFAULT (GETDATE())
```

Create 10 Stored procedures
using 5 tables, with and without parameters

Then Execute them.

After that put all of them on a word document
as follow:

1- procedure creation
2- procedure run
3- screen shot for the results