In this session we will learn

- Error handling in sql server 2000

Prerequisite:

Part 18 - Stored procedures

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Error handling

With the introduction of Try/Catch blocks in SQL Server 2005, error handling in sql server, is now similar to programming languages like C#, and java.

Error Handling in SQL Server 2000 - @@Error
Error Handling in SQL Server 2005 & later - Try...Catch

Note: Sometimes, system functions that begin with two at signs (@@), are called as global variables. They are not variables and do not have the same behaviours as variables, instead they are very similar to functions.

tblProduct

ProductId	Name	UnitPrice	QtyAvailable
1	Laptops	2340	90
2	Desktops	3467	50

tblProductSales

ProductSalesId	ProductId	QuantitySold
1	1	10
2	1	10

RAISERROR('Error Message', ErrorSeverity, ErrorState)
Create and return custom errors
Severity level = 16 (indicates general errors that can be corrected by the user)
State = Number between 1 & 255. RAISERROR only generates errors with state from 1 through 127.

@@Error System function

@@Error returns a NON-ZERO value, if there is an error, otherwise ZERO, indicating that the previous SQL statement encountered no errors.

Note: @@ERROR is cleared and reset on each statement execution. Check it immediately following the statement being verified, or save it to a local variable that can be checked later.

```sql
Insert into tblProduct values(2, 'Mobile Phone', 1500, 100)
if(@@ERROR <> 0)
        Print 'Error Occured'
Else
        Print 'No Errors'
```

```sql
Insert into tblProduct values(2, 'Mobile Phone', 1500, 100)
--At this point @@ERROR will have a NON ZERO value
Select * from tblProduct
--At this point @@ERROR gets reset to ZERO, because the select
--statement successfully executed
if(@@ERROR <> 0)
        Print 'Error Occured'
Else
        Print 'No Errors'
```

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@@Error System function

```
Declare @Error int
Insert into tblProduct values(2, 'Mobile Phone', 1500, 100)
Set @Error = @@ERROR
Select * from tblProduct
if(@Error <> 0)
        Print 'Error Occured'
Else
        Print 'No Errors'
```

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Additional Resources

- ## PRAGIM Home Page:

  - www.PragimTech.com

- ## Resources:

  - ASP.NET Interview Questions
  - www.VenkatASPInterview.Blogspot.com
  - C# Interview Questions
  - www.VenkatCSharpInterview.Blogspot.com
  - SQL Server Interview Questions
  - www.venkatsqlinterview.Blogspot.com

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