







## Stored Procedures [ CREATE [ OR ALTER ] { PROC | PROCEDURE } [ schema\_name.] procedure\_name [ { @parameter\_name [ type\_schema\_name.] data\_type } [ gefault ] [ OUT | OUTPUT | [READONLY] ] [ ,...n ] [ WITH <procedure\_option > [ ,...n ] [ END ] } [ SEGIN ] sql\_statement [;] [ ...n ] [ END ] } [ SECUTE AS Clause ]

CREATE DROC What DR is this	
AS	
SELECT DB_NAME() AS ThisDB; GO	
EXECUTE What_DB_is_this	
CREATE PROC What_DB_is_that @ID INT	
AS SELECT DB NAME(@ID) AS ThatDB:	
GO	
EXECUTE What_DB_is_that 2	









CRE	ATE PROCEDURE usp GetErrorInfo
AS	'_
SEL	ECT
	ERROR_NUMBER() AS ErrorNumber
	,ERROR_SEVERITY() AS ErrorSeverity
	,ERROR_STATE() AS ErrorState
	,ERROR_PROCEDURE() AS ErrorProcedure
	,ERROR_LINE() AS ErrorLine
	,ERROR_MESSAGE() AS ErrorMessage;
GO	
	exec
BEG	IN TRY
	SELECT 1/0; Generate divide-by-zero error.
END	TRY
BEG	IN CATCH
	Execute error retrieval routine.
	EXECUTE usp_GetErrorInfo;
END	CATCH;

```
Stored Procedures – Exception Handling
create table dbo.TableNoKey (ColA int, ColB int)
create table dbo.TableWithKey (ColA int primary key, ColB int)
go
create proc dbo.AddData @a int, @b int
as
 begin try
    insert dbo.TableNoKey values (@a, @b)
    insert dbo.TableWithKey values (@a, @b)
 end try
 begin catch
      select ERROR_NUMBER() ErrorNumber,
              ERROR_MESSAGE() [Message];
 end catch
GO
--exec
exec dbo.AddData 1, 1
exec dbo.AddData 2, 2
exec dbo.AddData 1, 3 --violates the primary key
```

