GROUP A BUNCH OF SQL COMMANDS INTO A UNIT, AND GIVE IT A NAME

CALL THIS AS A UNIT, AND PASS IT PARAMETERS

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BUT STORED PROCEDURES ARE, WELL, PROCEDURAL:-)

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NOW SQL IS BY-AND-LARGE A DECLARATIVE LANGUAGE

BUT STORED PROCEDURES ARE, WELL, PROCEDURAL:-)

STORED PROCEDURES HAVE ALL THE ADVANTAGES OF FUNCTIONS

```
CREATE PROCEDURE GetAnnualRevenue (
    @YEAR INT IN,
    @REVENUE DEC(10,2) OUT
AS
BEGIN
SELECT
  YEAR (DATE), @REVENUE = SUM (REVENUE)
FROM
   Sales Data
WHERE
  YEAR(Date) = @YEAR
GROUP BY
  YEAR (Date)
END
```

```
GetAnnualRevenue
CREATE PROCEDURE
                                    NAME
    @YEAR INT IN,
    @REVENUE DEC(10,2) OUT
AS
BEGIN
                            SPECIFY THE NAME AND
SELECT
 YEAR (DATE), @REVENUE = SUM (REVENUE)
FROM
                            PARAMETERS, JUST LIKE
  Sales Data
WHERE
                                 WITH A FUNCTION
 YEAR(Date) = @YEAR
GROUP BY
 YEAR (Date)
END
```

```
CREATE PROCEDURE GetAnnualRevenue (
@YEAR INT IN, PARAMETER NAME, PRECEDED
     @REVENUE DEC(10,2) OUT
AS
BEGIN
SELECT
  YEAR (DATE), @REVENUE = SUM (REVENUE)
FROM
  Sales Data
WHERE
  YEAR(Date) = @YEAR
GROUP BY
  YEAR (Date)
```

END

SPECIFY THE NAME AND PARAMETERS, JUST LIKE WITH A FUNCTION

```
CREATE PROCEDURE GetAnnualRevenue (
    @YEAR INT IN OUTHIS IS AN IN PARAMETER @REVENUE DEC(10,2) OUTHIS IS AN IN PARAMETER
AS
BEGIN
                                 SPECIFY THE NAME AND
SELECT
 YEAR (DATE), @REVENUE = SUM (REVENUE)
FROM
                                PARAMETERS, JUST LIKE
  Sales Data
WHERE
                                     WITH A FUNCTION
 YEAR(Date) = @YEAR
GROUP BY
 YEAR (Date)
END
```

```
CREATE PROCEDURE GetAnnualRevenue (

@YEAR INT IN, PARAMETER NAME, PRECEPEP

@REVENUE DEC(10,2) OUT

AS

BEGIN
```

AS BEGIN SELECT YEAR(DATE), @REVENUE = SUM(REVENUE) FROM Sales_Data WHERE YEAR(Date) = @YEAR GROUP BY YEAR(Date) END

SPECIFY THE NAME AND PARAMETERS, JUST LIKE WITH A FUNCTION

```
CREATE PROCEDURE GetAnnualRevenue
                                  THIS IS AN OUT PARAMETER
    QYEAR INT IN,
    @REVENUE DEC(10,2) OUT
AS
BEGIN
                            SPECIFY THE NAME AND
SELECT
 YEAR (DATE), @REVENUE = SUM (REVENUE)
FROM
                            PARAMETERS, JUST LIKE
  Sales Data
WHERE
                                 WITH A FUNCTION
 YEAR(Date) = @YEAR
GROUP BY
 YEAR (Date)
END
```

```
CREATE PROCEDURE GetAnnualRevenue (
   @YEAR INT IN,
   @REVENUE DEC(10,2) OUT
AS
BEGIN
SELECT
 YEAR (DATE), @REVENUE = SUM (REVENUE)
                                  THE STORED PROC BODY,
FROM
  Sales Data
                                 BETWEEN THE BEGIN AND
WHERE
 YEAR(Date) = @YEAR
GROUP BY
 YEAR (Date)
                                                 PINA
END
```

```
CREATE PROCEDURE GetAnnualRevenue (
  QYEAR INT IN,
  @REVENUE DEC(10,2) OUT
                              THE BODY IS PRETTY USUAL,
AS
BEGIN
SELECT
 YEAR (DATE), @REVENUE = SUM (REVENUE) CEPT FOR THE WAY THE
FROM
                                 PARAMETERS ARE USED
  Sales Data
WHERE
  YEAR(Date) = @YEAR
GROUP BY
  YEAR (Date)
```

END

PARAMETERS ARE USED

```
CREATE PROCEDURE GetAnnualRevenue
   @YEAR INT IN,
   @REVENUE DEC(10,2) OUT
                                THE OUT PARAMETERS MUST
AS
                                  BE ASSIGNED IN THE BODY
BEGIN
SELECT
             @REVENUE = SUM (REVENUE)
  YEAR (DATE),
FROM
   Sales Data
WHERE
                                THE BODY IS PRETTY USUAL,
  YEAR(Date) = @YEAR
GROUP BY
                                 EXCEPT FOR THE WAY THE
  YEAR (Date)
```

END

PARAMETERS ARE USED

```
CREATE PROCEDURE GetAnnualRevenue
   @YEAR INT IN,
   @REVENUE DEC(10,2) OUT
                                 THE IN PARAMETERS CAN BE
AS
                                    USEP LIKE CONSTANTS
BEGIN
SELECT
  YEAR (DATE), @REVENUE = SUM (REVENUE)
FROM
   Sales Data
WHERE
                                THE BODY IS PRETTY USUAL,
  YEAR(Date) = @YEAR
GROUP BY
                                 EXCEPT FOR THE WAY THE
  YEAR (Date)
```

END

```
DECLARE Revenue DEC(10,2);
EXEC GetAnnualRevenue @YEAR 2015,
    @REVENUE Revenue;
```

DECLARE ANY VARIABLES YOU NEED TO

DECLARE Revenue DEC(10,2);

EXEC GetAnnualRevenue @YEAR 2015, @REVENUE Revenue;

CALL THE STORED PROCUSING THE EXEC COMMAND

```
DECLARE Revenue DEC(10,2);

EXEC GetAnnualRevenue @YEAR 2015,

@REVENUE Revenue;
```

```
DECLARE Revenue DEC(10,2);

EXEC GetAnnualRevenue @YEAR 2015,

@REVENUE Revenue; YOU CAN EXPLICITLY TAG EACH
PARAMETER WITH THE NAME
```

```
DECLARE Revenue DEC(10,2);

EXEC GetAnnualRevenue @YEAR 2015,

@REVENUE Revenue; YOU CAN EXPLICITLY TAG EACH
```

PARAMETER WITH THE NAME