Eugene Borts

Applied Database II

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Assignment 6

This assignment uses five stored procedures in total to search for a keyword in the college debt database and list the cumulative debt, average debt, and weighted average for each school returned through a partial name match. The main stored procedure uses a cursor, while the four additional stored procedures are executed from the main stored procedure.

Main Stored Procedure

USE CollegeDatabase

GO

DROP PROCEDURE IF EXISTS SP\_REPORT

GO

CREATE PROCEDURE sp\_Report(

@NAME VARCHAR(200)

)

AS

BEGIN

DECLARE @UNITID INT

DECLARE @INSTNM VARCHAR(200)

DECLARE @CUML\_DEBT\_P10 FLOAT

DECLARE @CUML\_DEBT\_P25 FLOAT

DECLARE @CUML\_DEBT\_P75 FLOAT

DECLARE @CUML\_DEBT\_P90 FLOAT

DECLARE @COUNTER INT

SET @COUNTER = 1

DECLARE Report CURSOR

FOR SELECT UNITID, INSTNM, CUML\_DEBT\_P10, CUML\_DEBT\_P25, CUML\_DEBT\_P75, CUML\_DEBT\_P90 FROM MERGED2013\_PP1

WHERE INSTNM like '%' + (@NAME) + '%'

OPEN Report

FETCH NEXT FROM Report

INTO @UNITID, @INSTNM, @CUML\_DEBT\_P10, @CUML\_DEBT\_P25, @CUML\_DEBT\_P75, @CUML\_DEBT\_P90

WHILE @COUNTER = 1

BEGIN

EXEC sp\_90Report @NAME

EXEC sp\_75Report @NAME

EXEC sp\_25Report @NAME

EXEC sp\_10Report @NAME

SET @COUNTER = @COUNTER + 1

FETCH NEXT FROM Report

INTO @UNITID, @INSTNM, @CUML\_DEBT\_P10, @CUML\_DEBT\_P25, @CUML\_DEBT\_P75, @CUML\_DEBT\_P90

END

CLOSE Report

DEALLOCATE Report

END

GO

EXEC sp\_Report 'Daytona'

GO

Four Additional Stored Procedures

90th Percentile

USE CollegeDatabase

GO

DROP PROCEDURE IF EXISTS sp\_90Report

GO

CREATE PROCEDURE sp\_90Report (

@NAME VARCHAR(200)

)

AS

BEGIN

DECLARE @INSTNM VARCHAR(200)

DECLARE @Query NVARCHAR(500)

DECLARE @CUML\_DEBT\_P90 FLOAT

DECLARE @CUML\_DEBT\_N FLOAT

DECLARE @AVG90 FLOAT

DECLARE @AVGN FLOAT

DECLARE @SUMN FLOAT

DECLARE @WAVG FLOAT

SET @AVG90 = (SELECT AVG(CUML\_DEBT\_P90) FROM MERGED2013\_PP1)

SET @AVGN = (SELECT AVG(CUML\_DEBT\_N) FROM MERGED2013\_PP1)

SET @WAVG = (SELECT SUM(CUML\_DEBT\_P90\*CUML\_DEBT\_N)/SUM(CUML\_DEBT\_N) FROM MERGED2013\_PP1)

SELECT 'Cumulative debt at 90%' AS 'Value Type',

UnitID AS 'ID',

INSTNM AS 'Name',

CUML\_DEBT\_P90 AS 'Institution Value',

@AVG90 AS 'Average Value',

@WAVG AS 'Weighted Average' FROM MERGED2013\_PP1

WHERE INSTNM like '%' + (@NAME) + '%'

END

GO

75th Percentile

USE CollegeDatabase

GO

DROP PROCEDURE IF EXISTS sp\_75Report

GO

CREATE PROCEDURE sp\_75Report (

@NAME VARCHAR(200)

)

AS

BEGIN

DECLARE @INSTNM VARCHAR(200)

DECLARE @Query NVARCHAR(500)

DECLARE @CUML\_DEBT\_P75 FLOAT

DECLARE @CUML\_DEBT\_N FLOAT

DECLARE @AVG75 FLOAT

DECLARE @AVGN FLOAT

DECLARE @SUMN FLOAT

DECLARE @WAVG FLOAT

SET @AVG75 = (SELECT AVG(CUML\_DEBT\_P75) FROM MERGED2013\_PP1)

SET @AVGN = (SELECT AVG(CUML\_DEBT\_N) FROM MERGED2013\_PP1)

SET @WAVG = (SELECT SUM(CUML\_DEBT\_P75\*CUML\_DEBT\_N)/SUM(CUML\_DEBT\_N) FROM MERGED2013\_PP1)

SELECT 'Cumulative debt at 90%' AS 'Value Type',

UnitID AS 'ID',

INSTNM AS 'Name',

CUML\_DEBT\_P90 AS 'Institution Value',

@AVG75 AS 'Average Value',

@WAVG AS 'Weighted Average' FROM MERGED2013\_PP1

WHERE INSTNM like '%' + (@NAME) + '%'

END

GO

25th Percentile

USE CollegeDatabase

GO

DROP PROCEDURE IF EXISTS sp\_25Report

GO

CREATE PROCEDURE sp\_25Report (

@NAME VARCHAR(200)

)

AS

BEGIN

DECLARE @INSTNM VARCHAR(200)

DECLARE @Query NVARCHAR(500)

DECLARE @CUML\_DEBT\_P25 FLOAT

DECLARE @CUML\_DEBT\_N FLOAT

DECLARE @AVG25 FLOAT

DECLARE @AVGN FLOAT

DECLARE @SUMN FLOAT

DECLARE @WAVG FLOAT

SET @AVG25 = (SELECT AVG(CUML\_DEBT\_P25) FROM MERGED2013\_PP1)

SET @AVGN = (SELECT AVG(CUML\_DEBT\_N) FROM MERGED2013\_PP1)

SET @WAVG = (SELECT SUM(CUML\_DEBT\_P25\*CUML\_DEBT\_N)/SUM(CUML\_DEBT\_N) FROM MERGED2013\_PP1)

SELECT 'Cumulative debt at 90%' AS 'Value Type',

UnitID AS 'ID',

INSTNM AS 'Name',

CUML\_DEBT\_P90 AS 'Institution Value',

@AVG25 AS 'Average Value',

@WAVG AS 'Weighted Average' FROM MERGED2013\_PP1

WHERE INSTNM like '%' + (@NAME) + '%'

END

GO

10th Percentile

USE CollegeDatabase

GO

DROP PROCEDURE IF EXISTS sp\_10Report

GO

CREATE PROCEDURE sp\_10Report (

@NAME VARCHAR(200)

)

AS

BEGIN

DECLARE @INSTNM VARCHAR(200)

DECLARE @Query NVARCHAR(500)

DECLARE @CUML\_DEBT\_P10 FLOAT

DECLARE @CUML\_DEBT\_N FLOAT

DECLARE @AVG10 FLOAT

DECLARE @AVGN FLOAT

DECLARE @SUMN FLOAT

DECLARE @WAVG FLOAT

SET @AVG10 = (SELECT AVG(CUML\_DEBT\_P10) FROM MERGED2013\_PP1)

SET @AVGN = (SELECT AVG(CUML\_DEBT\_N) FROM MERGED2013\_PP1)

SET @WAVG = (SELECT SUM(CUML\_DEBT\_P10\*CUML\_DEBT\_N)/SUM(CUML\_DEBT\_N) FROM MERGED2013\_PP1)

SELECT 'Cumulative debt at 90%' AS 'Value Type',

UnitID AS 'ID',

INSTNM AS 'Name',

CUML\_DEBT\_P90 AS 'Institution Value',

@AVG10 AS 'Average Value',

@WAVG AS 'Weighted Average' FROM MERGED2013\_PP1

WHERE INSTNM like '%' + (@NAME) + '%'

END

GO

Results

