Eugene Borts
Applied Database II
Dr. Ron Eaglin
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

```sql
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

```sql
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

```sql
USE CollegeDatabase
GO
DROP PROCEDURE IF EXISTS sp_25Report
GO

CREATE PROCEDURE sp_25Report (
```

```sql
 @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


```sql
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
```

```sql
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

	Value Type	ID	Name	Institution Value	Average Value	Weighted Average
1	Cumulative debt at 90%	132268	Wyotech-Daytona	15400	25146.8313766484	39153.2241440083
2	Cumulative debt at 90%	133386	Daytona State College	24750	25146.8313766484	39153.2241440083
3	Cumulative debt at 90%	133553	Embry-Riddle Aeronautical University-...	36788	25146.8313766484	39153.2241440083
4	Cumulative debt at 90%	447014	Daytona College	17856	25146.8313766484	39153.2241440083
5	Cumulative debt at 90%	1350...	Keiser University-Daytona	41000	25146.8313766484	39153.2241440083

	Value Type	ID	Name	Institution Value	Average Value	Weighted Average
1	Cumulative debt at 75%	132268	Wyotech-Daytona	15400	18542.80476854	27976.0948533975
2	Cumulative debt at 75%	133386	Daytona State College	24750	18542.80476854	27976.0948533975
3	Cumulative debt at 75%	133553	Embry-Riddle Aeronautical University-...	36788	18542.80476854	27976.0948533975
4	Cumulative debt at 75%	447014	Daytona College	17856	18542.80476854	27976.0948533975
5	Cumulative debt at 75%	1350...	Keiser University-Daytona	41000	18542.80476854	27976.0948533975

	Value Type	ID	Name	Institution Value	Average Value	Weighted Average
1	Cumulative debt at 25%	132268	Wyotech-Daytona	15400	6243.19492181452	5989.85753445267
2	Cumulative debt at 25%	133386	Daytona State College	24750	6243.19492181452	5989.85753445267
3	Cumulative debt at 25%	133553	Embry-Riddle Aeronautical University-...	36788	6243.19492181452	5989.85753445267
4	Cumulative debt at 25%	447014	Daytona College	17856	6243.19492181452	5989.85753445267
5	Cumulative debt at 25%	1350...	Keiser University-Daytona	41000	6243.19492181452	5989.85753445267

	Value Type	ID	Name	Institution Value	Average Value	Weighted Average
1	Cumulative debt at 10%	132268	Wyotech-Daytona	15400	3530.10131875201	2816.169973633
2	Cumulative debt at 10%	133386	Daytona State College	24750	3530.10131875201	2816.169973633
3	Cumulative debt at 10%	133553	Embry-Riddle Aeronautical University-...	36788	3530.10131875201	2816.169973633
4	Cumulative debt at 10%	447014	Daytona College	17856	3530.10131875201	2816.169973633
5	Cumulative debt at 10%	1350...	Keiser University-Daytona	41000	3530.10131875201	2816.169973633