Project Codes, Links, and Data Analysis Outcome Screenshots

Grace Campos

Colorado State University Global

MIS581: Capstone – Business Intelligence and Data Analytics

Dr. Lisa Bryan

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Project Codes, Links, and Data Analysis Outcome Screenshots

GitHub Link: https://github.com/campos-28/MIS581

SQL Table Join Code:

```
--//[K2 GROUP]-READING---

select

d.StudentNumber

,d.BuildingGrade as CurrentGrade

,EnglishLearner = case when d.EnglishLearner = 'N' then 'No' else 'Yes' end

,DisabilityCondition = case when d.DisabilityCondition = '**' then 'No' else 'Yes' end

,d.DistrictAdmissionDate

,'YearsinDistrict' = (SELECT (DATEDIFF(DAY, DistrictAdmissionDate,
CURRENT_TIMESTAMP) / 365.25))

,'KRA_LL' = (select coalesce(max(LangLitScore),0) from KRA_TABLE k where
d.StudentNumber=k.LocalID)

,'KRA_OVERALL' = (select coalesce(max(OverallScore),0) from KRA_TABLE k where
d.StudentNumber=k.LocalID)

,i.Test_Date

,'Term' = case when (Test_Date between '2022-08-01' and '2023-01-03') then 'Fall'

                    when (Test_Date between '2022-05-09' and '2022-05-31') then 'Spring'

                    when (Test_Date between '2022-01-03' and '2022-05-08') then 'Winter'

                    when (Test_Date between '2021-08-01' and '2022-01-03') then 'Fall'

              else '' end

,i.Scale_Score

,i.Percentile

,i.Grade

,i.Typical_Growth

,i.Stretch_Growth
```

```
,'TotalMin' = (select coalesce(sum(Min_per_Lesson),0) from iReady_Reading_Pers p where
d.StudentNumber=p.StudentID)

,i.Subject

from Default_StudentRoster d

inner join iready_diag_agg_ela i on d.StudentNumber=i.Student_ID

where BuildingGrade in ('KG','1','2')

order by BuildingGrade, [Term];


--//[K2 GROUP]-MATH---

select

d.StudentNumber

,d.BuildingGrade as CurrentGrade

,EnglishLearner = case when d.EnglishLearner = 'N' then 'No' else 'Yes' end

,DisabilityCondition = case when d.DisabilityCondition = '**' then 'No' else 'Yes' end

,d.DistrictAdmissionDate

,'YearsinDistrict' = (SELECT (DATEDIFF(DAY, DistrictAdmissionDate,
CURRENT_TIMESTAMP) / 365.25))

,'KRA_MA' = (select coalesce(max(MathScore),0) from KRA_TABLE k where
d.StudentNumber=k.LocalID)

,'KRA_OVERALL' = (select coalesce(max(OverallScore),0) from KRA_TABLE k where
d.StudentNumber=k.LocalID)

,i.Test_Date

,'Term' = case when (Test_Date between '2022-08-01' and '2023-01-03') then 'Fall'

                    when (Test_Date between '2022-05-09' and '2022-05-31') then 'Spring'

                    when (Test_Date between '2022-01-03' and '2022-05-08') then 'Winter'

                    when (Test_Date between '2021-08-01' and '2022-01-03') then 'Fall'

              else '' end

,i.Scale_Score

,i.Percentile
```

```
,i.Grade
,i.Typical_Growth
,i.Stretch_Growth
,'TotalMin' = (select coalesce(sum(Min_per_Lesson),0) from iReady_Math_Pers p where
d.StudentNumber=p.StudentID)
,i.Subject
from Default_StudentRoster d
inner join iready_diag_agg_math i on d.StudentNumber=i.Student_ID
where BuildingGrade in ('KG','1','2')
order by BuildingGrade, [Term];


--//[38 GROUP]-READING---
select distinct
d.StudentNumber
,d.BuildingGrade as CurrentGrade
,EnglishLearner = case when d.EnglishLearner = 'N' then 'No' else 'Yes' end
,DisabilityCondition = case when d.DisabilityCondition = '**' then 'No' else 'Yes' end
,d.DistrictAdmissionDate
,'YearsinDistrict' = (SELECT (DATEDIFF(DAY, DistrictAdmissionDate,
CURRENT_TIMESTAMP) / 365.25))
,i.Test_Date
,'Term' = case when (Test_Date between '2022-08-01' and '2023-01-03') then 'Fall'
                    when (Test_Date between '2022-05-09' and '2022-05-31') then 'Spring'
                    when (Test_Date between '2022-01-03' and '2022-05-08') then 'Winter'
                    when (Test_Date between '2021-08-01' and '2022-01-03') then 'Fall'
               else '' end
,i.Scale_Score
,i.Percentile
```

```
,i.Grade

,i.Typical_Growth

,i.Stretch_Growth

,'TotalMin' = (select coalesce(sum(Min_per_Lesson),0) from iReady_Reading_Pers p where d.StudentNumber=p.StudentID)

,i.Subject

,o.TestName

,o.ProficiencyLevel

,o.ScaledScore

from Default_StudentRoster d

inner join iready_diag_agg_ela i on d.StudentNumber=i.Student_ID

inner join OST_EOC_Results o on d.StateStudentID=o.StateID

where BuildingGrade in ('3','4','5','6','7','8') and (o.TestName like '%english%' and o.TestTerm like '%Spring%')

order by BuildingGrade, [Term];



--//[38 GROUP]-MATH---

select distinct

d.StudentNumber

,d.BuildingGrade as CurrentGrade

,EnglishLearner = case when d.EnglishLearner = 'N' then 'No' else 'Yes' end

,DisabilityCondition = case when d.DisabilityCondition = '**' then 'No' else 'Yes' end

,d.DistrictAdmissionDate

,'YearsinDistrict' = (SELECT (DATEDIFF(DAY, DistrictAdmissionDate, CURRENT_TIMESTAMP) / 365.25))

,i.Test_Date

,'Term' = case when (Test_Date between '2022-08-01' and '2023-01-03') then 'Fall'
```

```
                when (Test_Date between '2022-05-09' and '2022-05-31') then 'Spring'
                when (Test_Date between '2022-01-03' and '2022-05-08') then 'Winter'
                when (Test_Date between '2021-08-01' and '2022-01-03') then 'Fall'
        else '' end
,i.Scale_Score
,i.Percentile
,i.Grade
,i.Typical_Growth
,i.Stretch_Growth
,'TotalMin' = (select coalesce(sum(Min_per_Lesson),0) from iReady_Math_Pers p where
d.StudentNumber=p.StudentID)
,i.Subject
,o.TestName
,o.ProficiencyLevel
,o.ScaledScore
from Default_StudentRoster d
inner join iready_diag_agg_ela i on d.StudentNumber=i.Student_ID
inner join OST_EOC_Results o on d.StateStudentID=o.StateID
where BuildingGrade in ('3','4','5','6','7','8') and ((o.TestName like '%mathematics%' or
o.TestName like '%algebra%') and o.TestTerm like '%Spring%')
order by BuildingGrade, [Term];


--//[910 GROUP]-READING---
select distinct
e.State_Student_ID
,'TestName' = 'English'
,e.Projected_State_Percentile
,'Percentile_Conv' = case when e.Projected_State_Percentile <=20 then 1
```

```
                when e.Projected_State_Percentile between 21 and 40 then 2
                when e.Projected_State_Percentile between 41 and 60 then 3
                when e.Projected_State_Percentile between 61 and 80 then 4
                when e.Projected_State_Percentile  >=81 then 5
        else 0 end
,o.TestName
,o.ProficiencyLevel as EOC_Level
,o.ScaledScore as EOC_Score
,'Diagnostic1' = (select max(Diagnostic_Overall_Scale_Score_1) from
district.dbo.iReady_diagnostic_ela_ytd  i where d.StudentNumber=i.Student_ID)
,'Diagnostic2' = (select max(Diagnostic_Overall_Scale_Score_2) from
district.dbo.iReady_diagnostic_ela_ytd  i where d.StudentNumber=i.Student_ID)
,'Diagnostic3' = (select max(Diagnostic_Overall_Scale_Score_Most_Recent) from
district.dbo.iReady_diagnostic_ela_ytd  i where d.StudentNumber=i.Student_ID)
,'YearsinDistrict' = (SELECT (DATEDIFF(DAY, DistrictAdmissionDate,
CURRENT_TIMESTAMP) / 365.25) from district.dbo.Default_StudentRoster r where
r.StateStudentID=e.State_Student_ID)
from [EVAAS_2022_Student_Projections] e
left join OST_EOC_Results o on e.State_Student_ID=o.StateID
left join HighSchool.dbo.Demographics d on e.State_Student_ID=d.StateStudentID
where e.Grade_Attributed in ('9','10') and e.Projection like '%arts ii%'
and o.TestName like '%arts 2%'



--//[910 GROUP]-MATH---
select distinct
e.State_Student_ID
,'TestName' = 'Algebra I'
,e.Projected_State_Percentile as EVAAS_Proj
```

```
,'Percentile_Conv' = case when e.Projected_State_Percentile <=20 then 1
                          when e.Projected_State_Percentile between 21 and 40 then 2
                          when e.Projected_State_Percentile between 41 and 60 then 3
                          when e.Projected_State_Percentile between 61 and 80 then 4
                          when e.Projected_State_Percentile  >=81 then 5
                    else 0 end
,o.TestName
,o.ProficiencyLevel as EOC_Level
,o.ScaledScore as EOC_Score
,'Diagnostic1' = (select max(Diagnostic_Overall_Scale_Score_1) from
district.dbo.iReady_diagnostic_math_ytd  i where d.StudentNumber=i.Student_ID)
,'Diagnostic2' = (select max(Diagnostic_Overall_Scale_Score_2) from
district.dbo.iReady_diagnostic_math_ytd  i where d.StudentNumber=i.Student_ID)
,'Diagnostic3' = (select max(Diagnostic_Overall_Scale_Score_Most_Recent) from
district.dbo.iReady_diagnostic_math_ytd  i where d.StudentNumber=i.Student_ID)
,'YearsinDistrict' = (SELECT (DATEDIFF(DAY, DistrictAdmissionDate,
CURRENT_TIMESTAMP) / 365.25) from district.dbo.Default_StudentRoster r where
r.StateStudentID=e.State_Student_ID)
from [EVAAS_2023_Student_Projections] e
left join OST_EOC_Results o on e.State_Student_ID=o.StateID
left join HighSchool.dbo.Demographics d on e.State_Student_ID=d.StateStudentID
where e.Grade_Attributed in ('9','10') and e.Projection like '%algebra%'
and o.TestName like '%algebra%'
```

SAS Analysis Code:

```
*IMPORT FILES;
FILENAME REFFILE '/home/u49995198/sasuser.v94/MIS581/Usage_Min.csv';
PROC IMPORT DATAFILE=REFFILE
        DBMS=CSV
```

```
        OUT=WORK.USAGE_MIN;
        GETNAMES=YES;
RUN;
PROC CONTENTS DATA=WORK.USAGE_MIN; RUN;
%web_open_table(WORK.USAGE_MIN);
FILENAME REFFILE '/home/u49995198/sasuser.v94/MIS581/MIS581-IREADY.csv';
PROC IMPORT DATAFILE=REFFILE
        DBMS=CSV
        OUT=WORK.IREADY;
        GETNAMES=YES;
RUN;
PROC CONTENTS DATA=WORK.IREADY; RUN;
%web_open_table(WORK.IREADY);
FILENAME REFFILE '/home/u49995198/sasuser.v94/MIS581/MIS581-STATE.csv';
PROC IMPORT DATAFILE=REFFILE
        DBMS=CSV
        OUT=WORK.STATE;
        GETNAMES=YES;
RUN;
PROC CONTENTS DATA=WORK.STATE; RUN;
%web_open_table(WORK.STATE);
FILENAME REFFILE '/home/u49995198/sasuser.v94/MIS581/State_Growth.csv';
PROC IMPORT DATAFILE=REFFILE
        DBMS=CSV
        OUT=WORK.STATE_GROWTH;
        GETNAMES=YES;
RUN;
```

```
PROC CONTENTS DATA=WORK.STATE_GROWTH; RUN;
%web_open_table(WORK.STATE_GROWTH);
```

```
*KRUSKAL-WALLIS TEST;
proc npar1way data=WORK.USAGE_MIN;
        class TYPICAL;
        var TOTALMIN;
       run;
proc npar1way data=WORK.STATE;
        class GROUP;
        var YEARS;
       run;
PROC NPAR1WAY data=WORK.STATE WILCOXON;
       CLASS GROUP;
       VAR YEARS;
              EXACT;
       TITLE 'COMPARE TWO GROUPS USING NPAR1WAY';
RUN;
```

```
*ANOVA TEST;
proc anova data=WORK.STATE_GROWTH;
        class GROUP;
        model ACTUAL_GROWTH=GROUP;
        means GROUP/TUKEY;
              EXACT;
title 'ANOVA Test'
       run;
```

Table 1

One-sample t-test results for Math and Reading by grade level

Math Diagnostic	Typical Growth	Frequency/ Peaks	95% CL Mean	t Value	Pr > |t|
Grade K	31.8	87.2%	30.7 - 30.9	156.39	<.0001
Grade 1	28.8	71.4%	30.3 - 30.6	139.07	<.0001
Grade 2	25.8 28.8	41.9% 53.1%	27.2 - 27.4	151.32	<.0001
Grade 3	26 27	36.4% 36.1%	27.1 - 27.3	189.53	<.0001
Grade 4	23.1 24	66.7% 31.8%	23.2 - 23.3	200.83	<.0001
Grade 5	18.2 19.9	65.1% 32.7%	18.5 - 18.6	-52.63	<.0001
Grade 6	14 15	47.9% 42.5%	14.3 - 14.4	-381.77	<.0001
Grade 7	12 12.9	31.2% 66.4%	12.6 - 12.7	-633.46	<.0001
Grade 8	9 12	33.6% 54.8%	10.7 - 10.8	-292.09	<.0001

Reading Diagnostic	Typical Growth	Frequency/ Peaks	95% CL Mean	t Value	Pr > |t|
Grade K	49.2	80.7%	47.9 - 48.1	611.64	<.0001
Grade 1	49	76.2%	48.8 - 49.1	401.08	<.0001
Grade 2	39.8 44.3	40.4% 43.7%	38.8 - 39.4	132.12	<.0001
Grade 3	26 33	19.7% 35%	28.6 - 29.2	64.61	<.0001
Grade 4	20 28	38.2% 29.8%	21.8 - 22.2	18.70	<.0001
Grade 5	16 20	29.3% 28.2%	18.3 - 18.8	-11.88	<.0001

Grade 6	12.4 18.8	23.9% 40.8%	14.1 - 14.5	-53.26	<.0001
Grade 7	16.8	54.2%	13.0 - 13.5	-64.80	<.0001
Grade 8	18	57.3%	13.2 - 13.7	-51.41	<.0001

Figure 1

Summary statistics of Math diagnostic growth by grade level

Subject=Math

Student_Grade	N Obs	Variable	Mean	Std Dev	Median	Std Error	Mode	Skewness	Kurtosis
0	2043	Typical_Growth	30.8203622	3.1273237	32.0000000	0.0691893	32.0000000	-2.3655228	3.8600829
		Stretch_Growth	38.7121880	0.9174461	39.0000000	0.0202977	39.0000000	-3.5213196	11.2611877
1	1914	Typical_Growth	30.4555904	3.2892231	29.0000000	0.0751835	29.0000000	0.6533830	0.0714197
		Stretch_Growth	41.7429467	8.6124531	37.0000000	0.1968593	37.0000000	1.1840978	-0.5489143
2	1890	Typical_Growth	27.3402116	2.1087737	29.0000000	0.0485064	29.0000000	-1.6299657	4.0688476
		Stretch_Growth	42.2677249	6.1359458	48.0000000	0.1411402	48.0000000	-0.1552003	-1.9033097
3	1927	Typical_Growth	27.2060197	1.6690342	27.0000000	0.0380211	26.0000000	0.5021709	0.3162500
		Stretch_Growth	42.4042553	7.7640465	43.0000000	0.1768672	35.0000000	0.5880628	-1.0102998
4	1807	Typical_Growth	23.2606530	0.6901588	23.0000000	0.0162357	23.0000000	-2.9638248	17.8785722
		Stretch_Growth	39.7548423	5.8965986	41.0000000	0.1387147	34.0000000	-0.0846982	-1.1512541
5	1813	Typical_Growth	18.5626034	1.1628314	18.0000000	0.0273098	18.0000000	-0.8244074	3.1769541
		Stretch_Growth	34.7357970	5.0223807	35.0000000	0.1179535	31.0000000	-0.1971995	-0.2910509
6	1870	Typical_Growth	14.3294118	0.6423115	14.0000000	0.0148534	14.0000000	-0.4302299	-0.7014026
		Stretch_Growth	30.4941176	4.3148824	30.0000000	0.0997811	35.0000000	-0.2732495	-1.2415683
7	1902	Typical_Growth	12.6498423	0.5060367	13.0000000	0.0116032	13.0000000	-0.9548895	-0.3637570
		Stretch_Growth	28.3664564	4.8872387	33.0000000	0.1120620	33.0000000	-0.1651344	-1.8584295
8	1960	Typical_Growth	10.7653061	1.3997084	12.0000000	0.0316162	12.0000000	-0.3108767	-1.7974378
		Stretch_Growth	26.9489796	4.5055067	31.0000000	0.1017690	31.0000000	-0.2407601	-1.8700375

Figure 2

Summary statistics of Reading diagnostic growth by grade level

Subject=Reading

Student_Grade	N Obs	Variable	Mean	Std Dev	Median	Std Error	Mode	Skewness	Kurtosis
0	2044	Typical_Growth	47.9995108	2.0696392	49.0000000	0.0457777	49.0000000	-1.5794543	0.6268431
		Stretch_Growth	66.1516634	2.7614386	67.0000000	0.0610794	67.0000000	-3.0669750	19.9971918
1	1963	Typical_Growth	48.9704534	3.2002713	49.0000000	0.0722315	49.0000000	-1.9241536	6.8445574
		Stretch_Growth	69.2175242	11.7327555	67.0000000	0.2648133	67.0000000	1.0303042	1.6546593
2	1932	Typical_Growth	39.1123188	6.3583081	39.0000000	0.1446565	44.0000000	-1.5590977	1.5276444
		Stretch_Growth	62.5569358	17.6053276	53.0000000	0.4005351	81.0000000	-0.2766089	-1.0950806
3	1970	Typical_Growth	28.8918782	6.1085479	33.0000000	0.1376274	33.0000000	-0.4785147	-1.1015322
		Stretch_Growth	53.7263959	17.7615480	63.0000000	0.4001729	63.0000000	-0.1087053	-1.0956816
4	1866	Typical_Growth	22.0219721	4.6714063	20.0000000	0.1081414	20.0000000	-0.2199932	-0.5511773
		Stretch_Growth	44.0235798	13.9297156	36.0000000	0.3224679	36.0000000	0.0511398	-1.2916928
5	1866	Typical_Growth	18.5739550	5.1864070	20.0000000	0.1200634	16.0000000	-0.1091688	-0.4788768
		Stretch_Growth	40.7202572	14.2431579	47.0000000	0.3297239	30.0000000	0.1729636	-1.3803384
6	1887	Typical_Growth	14.3184950	4.6335253	14.0000000	0.1066659	19.0000000	-0.6433204	-0.3941928
		Stretch_Growth	37.4610493	12.7184806	38.0000000	0.2927853	51.0000000	-0.2115388	-1.4388138
7	1880	Typical_Growth	13.2537234	4.5143007	17.0000000	0.1041146	17.0000000	-0.7211151	-0.9139055
		Stretch_Growth	39.1861702	12.7851789	50.0000000	0.2948682	50.0000000	-0.5759878	-1.2900007
8	1985	Typical_Growth	13.4891688	5.6423128	18.0000000	0.1266418	18.0000000	-0.6791289	-1.2001187
		Stretch_Growth	39.1168766	13.4676076	50.0000000	0.3022805	50.0000000	-0.6257194	-1.2729079

Figure 3

Total minutes spent in a year by subject

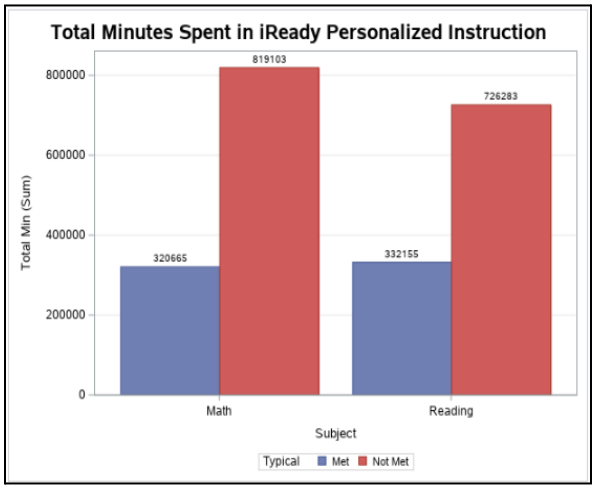
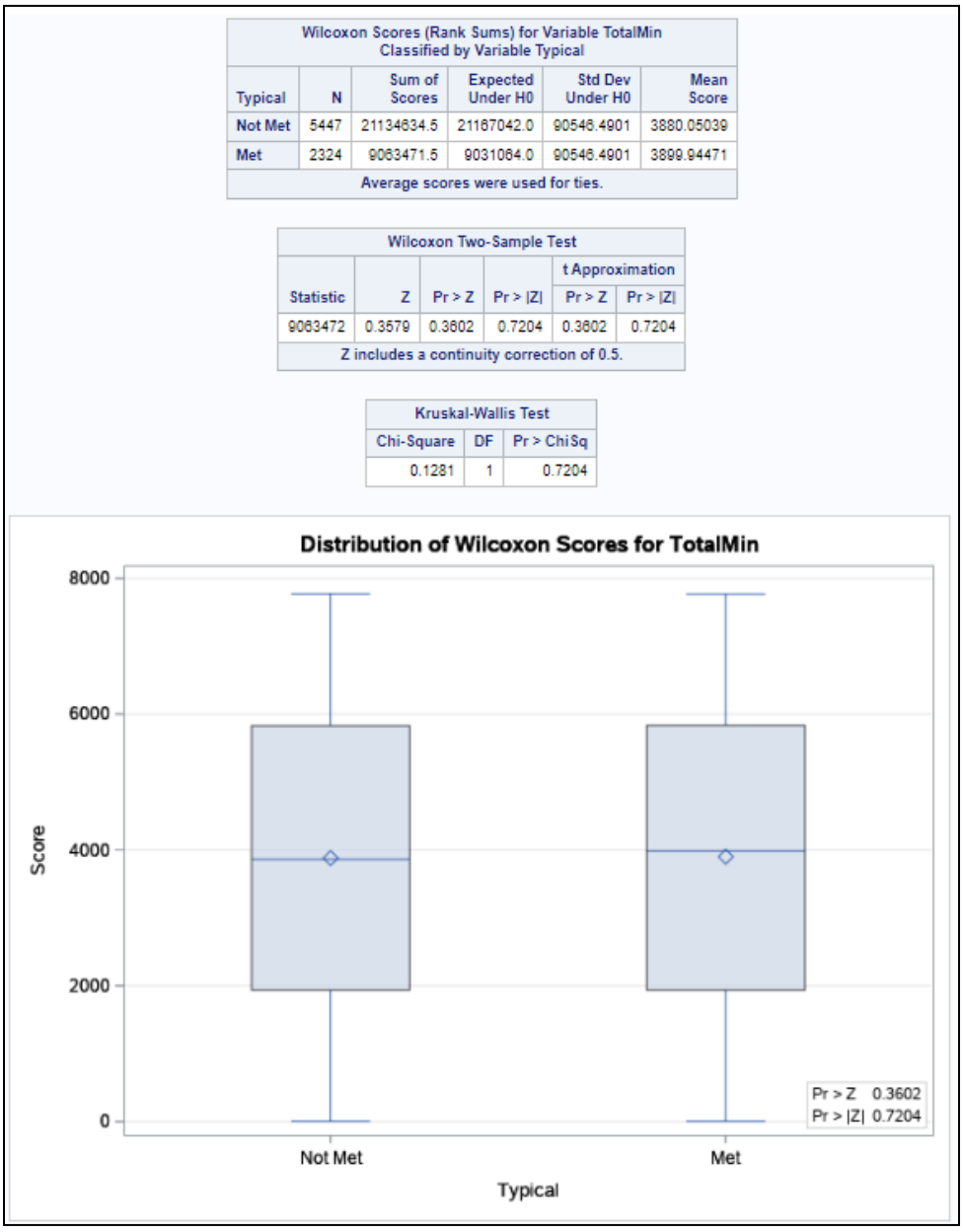


Figure 4

Kruskal-Wallis test of total minutes based on group - met or not met the annual growth goal



Wilcoxon Scores (Rank Sums) for Variable TotalMin Classified by Variable Typical

Typical	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
Not Met	5447	21134634.5	21167042.0	90546.4901	3880.05039
Met	2324	9063471.5	9031064.0	90546.4901	3899.94471

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	Z	Pr > Z	Pr > |Z|	t Approximation Pr > Z	t Approximation Pr > |Z|
9063472	0.3579	0.3602	0.7204	0.3602	0.7204

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	DF	Pr > ChiSq
0.1281	1	0.7204

Figure 5

Five-year state test results and respective years students have been in the district

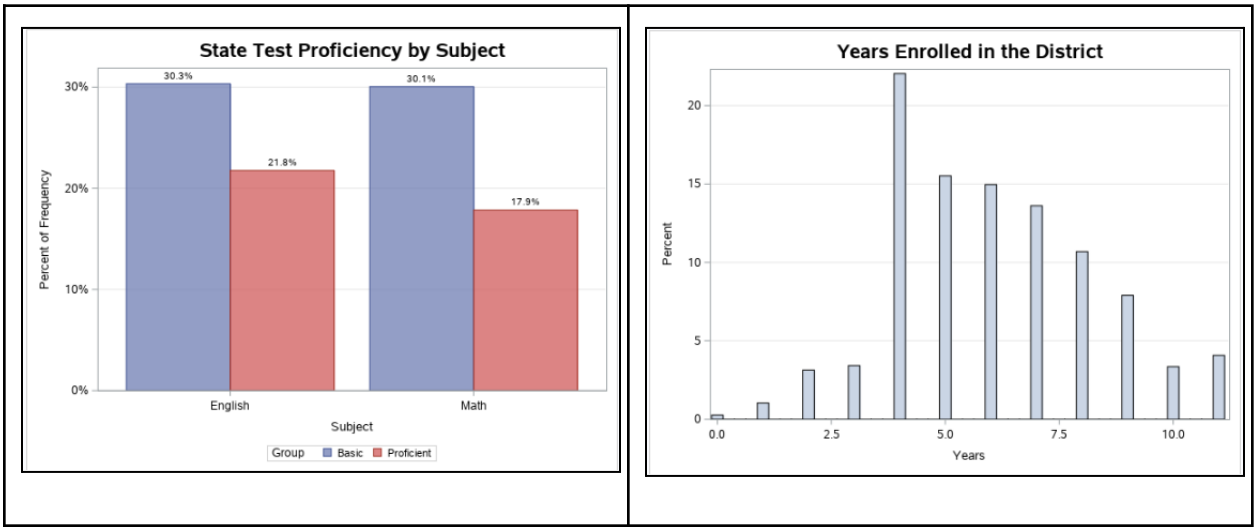


Figure 6.a

Kruskal-Wallis test to determine if years affect state performance

Wilcoxon Scores (Rank Sums) for Variable Years
Classified by Variable Group

Group	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
Basic	24906	510635096	513686250	1169661.82	20502.4932
Proficient	16343	340125530	337074375	1169661.82	20811.6949

Average scores were used for ties.

Wilcoxon Two-Sample Test

Statistic	Z	Pr > Z	Pr > |Z|	t Approximation Pr > Z	t Approximation Pr > |Z|
3.4013E8	2.6086	0.0045	0.0091	0.0045	0.0091

Z includes a continuity correction of 0.5.

Kruskal-Wallis Test

Chi-Square	DF	Pr > ChiSq
6.8047	1	0.0091

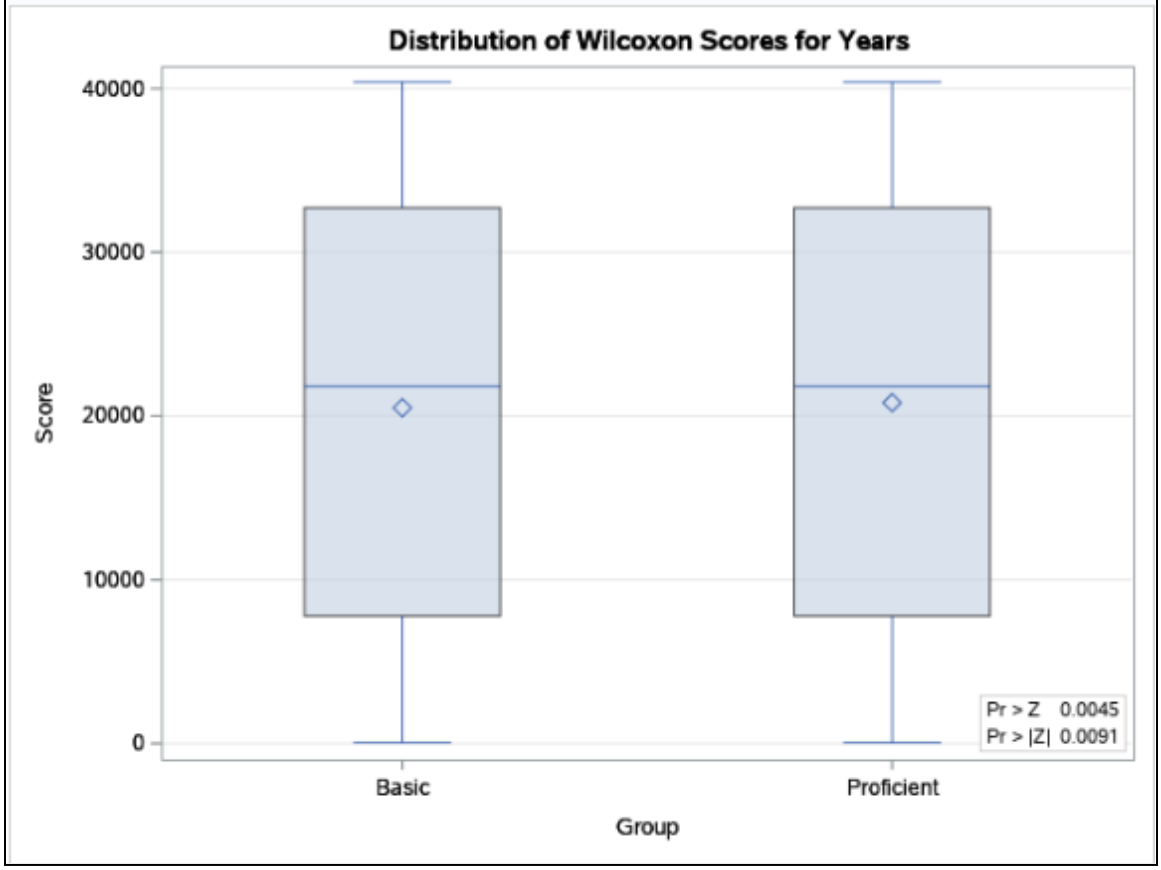


Figure 6.b

Continued - Kruskal-Wallis test to determine if years affect state performance

Median Scores (Number of Points Above Median) for Variable Years Classified by Variable Group

Group	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
Basic	24906	12498.7359	12452.6981	46.400753	0.501836
Proficient	16343	8125.2641	8171.3019	46.400753	0.497171

Average scores were used for ties.

Median Two-Sample Test

Statistic	Z	Pr < Z	Pr > |Z|
8125.264	-0.9922	0.1606	0.3211

Median One-Way Analysis

Chi-Square	DF	Pr > ChiSq
0.9844	1	0.3211

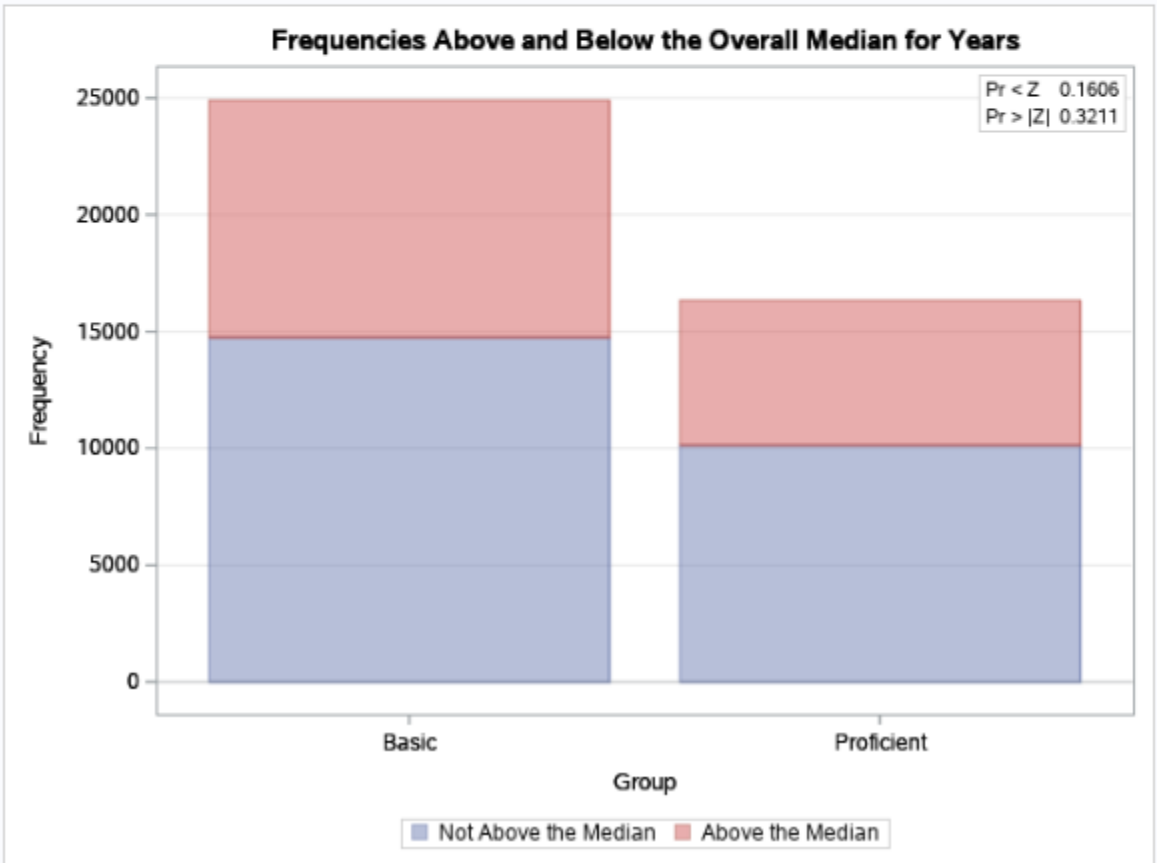


Figure 7

Comparing actual_growth across performance level using the ANOVA test

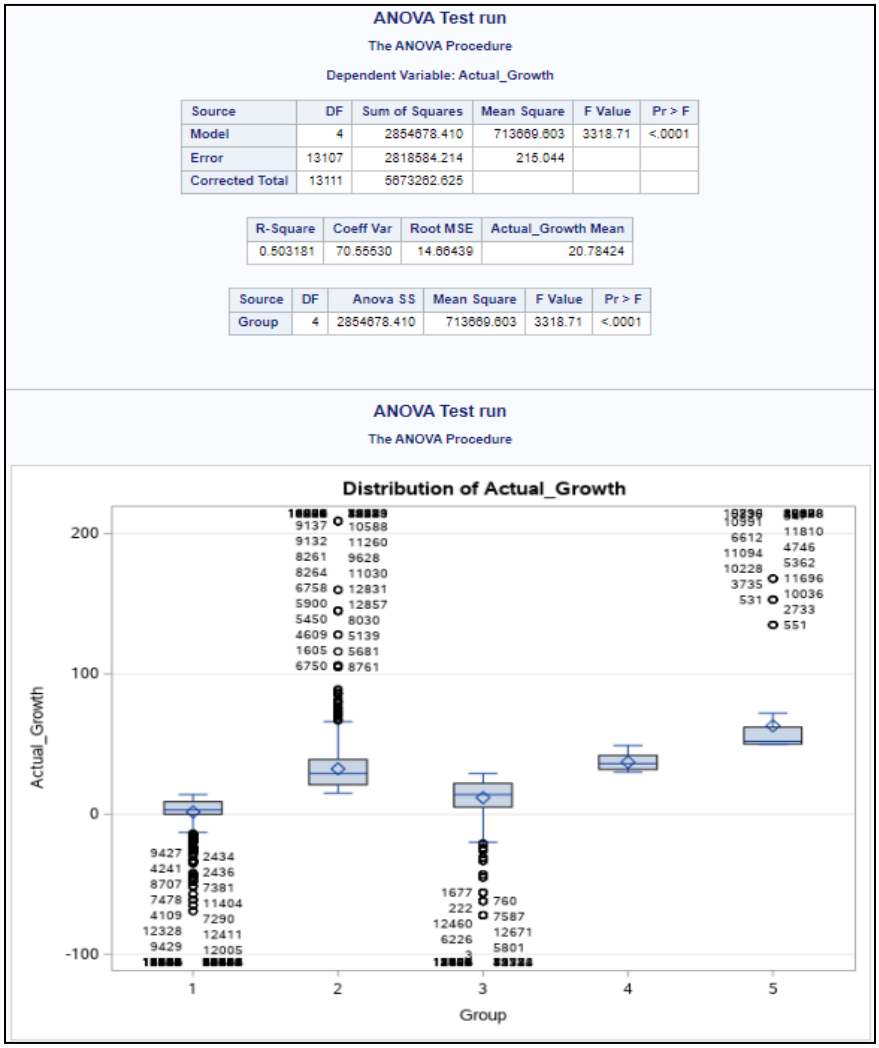


Table 2

Increase achievement with effective grade-level cut scores based on diagnostic results

On-Track in Reading	Fall	Winter	Spring
Kindergarten	≥346	≥370	≥394
1st Grade	≥394	≥419	≥443
2nd Grade	≥443	≥462	≥481
3rd Grade	≥481	≥495	≥510
4th Grade	≥510	≥520	≥530
5th Grade	≥530	≥538	≥546
6th Grade	≥546	≥556	≥565
7th Grade	≥565	≥574	≥582
8th Grade	≥582	≥591	≥600

On-Track in Math	Fall	Winter	Spring
Kindergarten	≥336	≥352	≥368
1st Grade	≥368	≥383	≥397
2nd Grade	≥397	≥412	≥426
3rd Grade	≥426	≥439	≥452
4th Grade	≥452	≥464	≥475
5th Grade	≥475	≥484	≥493
6th Grade	≥493	≥500	≥507
7th Grade	≥507	≥514	≥520
8th Grade	≥520	≥526	≥532

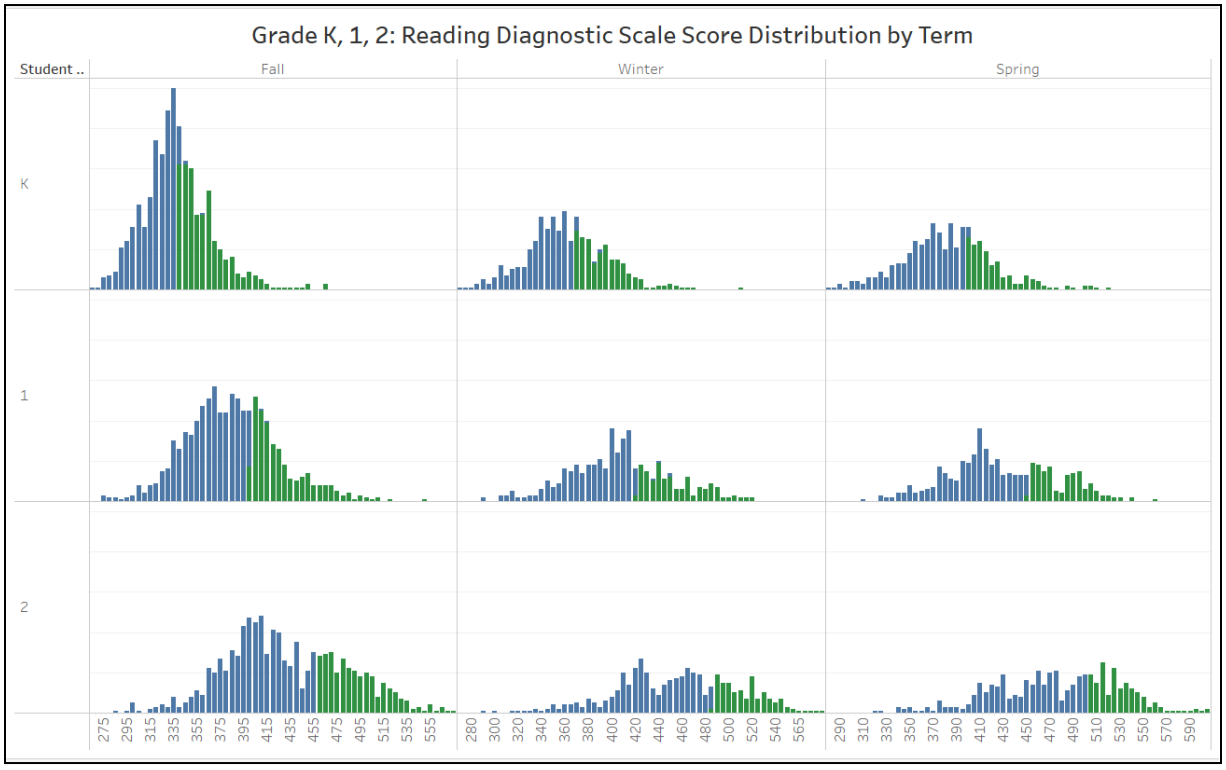
Table 3

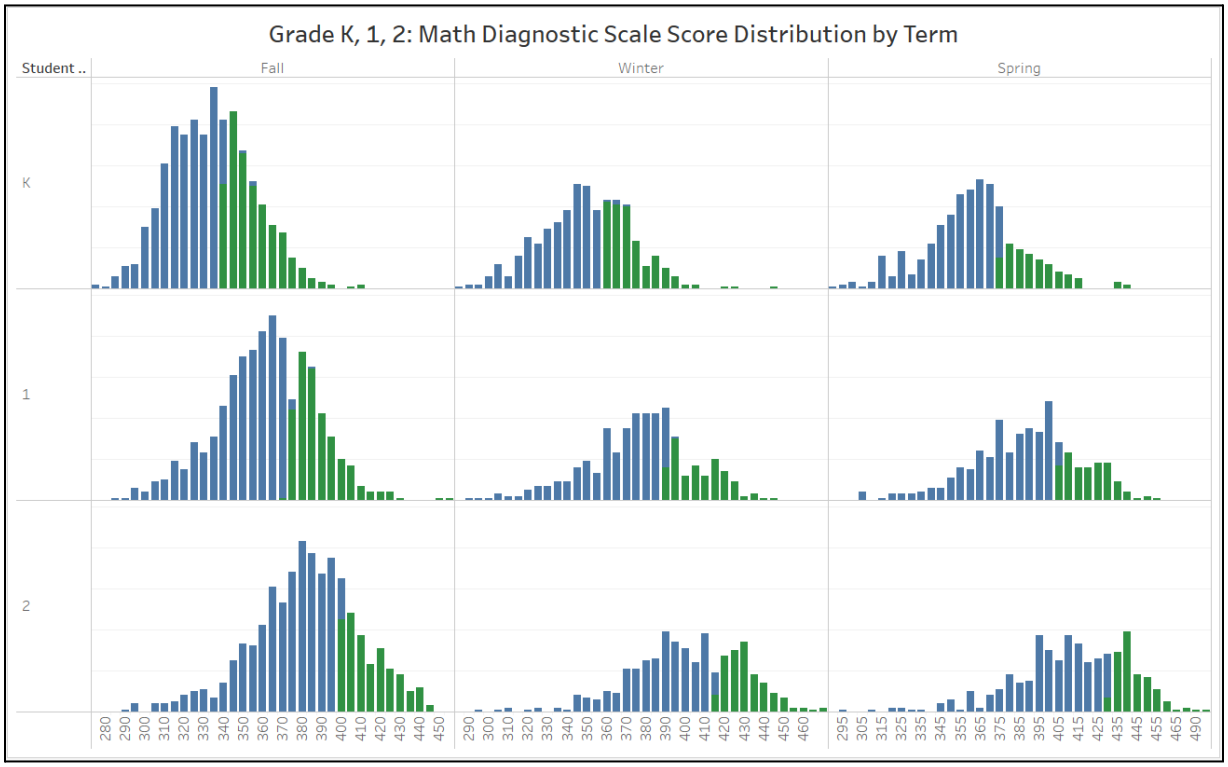
Project overall end-of-year performance

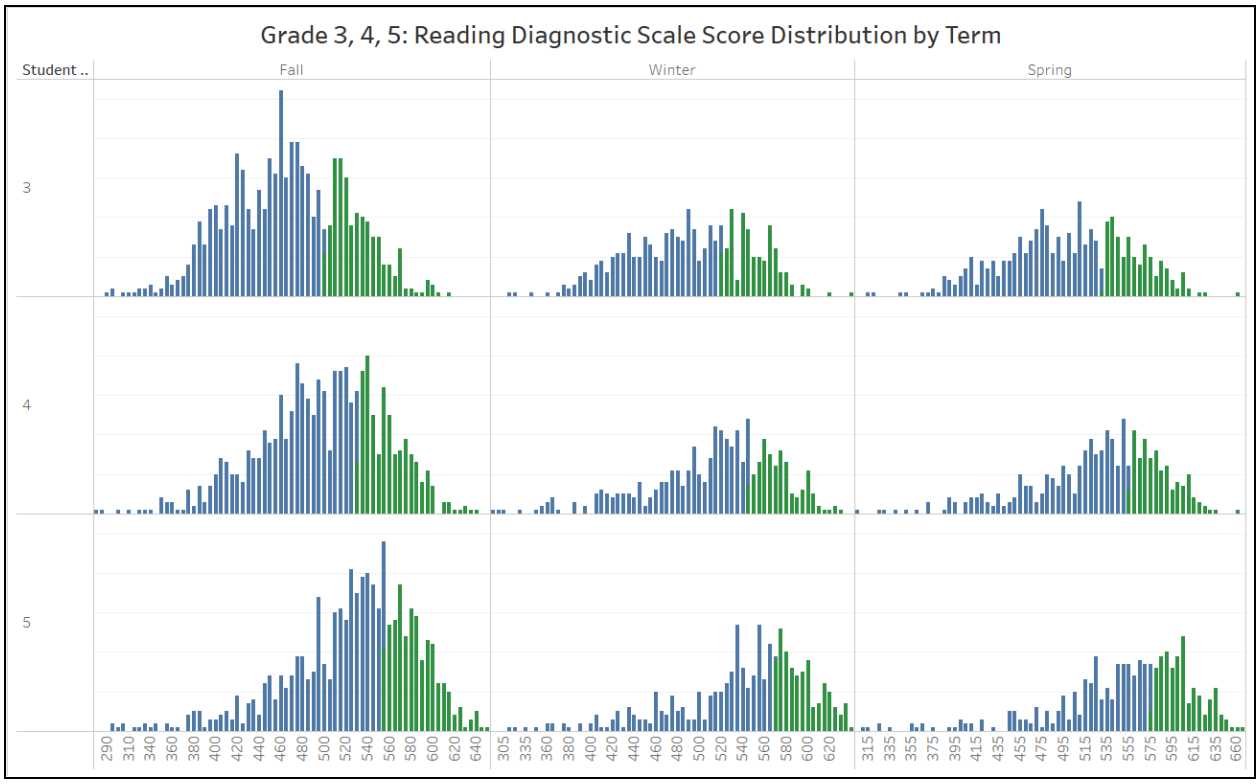
	Subject	**18-19 Baseline**	**20-21 Results**	**21-22 Actual**	**22-23 Goal (Current)**	***22-23 Goal Projection***
Grade 3	Reading	52%	23%	45%	67%	*42%*
	Math	60%	27%	40%	60%	*28%*
Grade 4	Reading	60%	41%	54%	67%	*50%*
	Math	63%	35%	45%	63%	*20%*
Grade 5	Reading	63%	48%	56%	64%	*52%*
	Math	49%	20%	35%	50%	*12%*
Grade 6	Reading	39%	33%	45%	57%	*58%*
	Math	46%	20%	25%	46%	*13%*
Grade 7	Reading	56%	38%	48%	58%	*52%*
	Math	46%	14%	17%	46%	*9%*
Grade 8	Reading	34%	29%	36%	42%	*43%*
	Math	39%	23%	23%	39%	*7%*
Grade 9/10	Algebra I	27%	20%	20%	27%	*10%*
	English II	35%	44%	39%	44%	*44%*

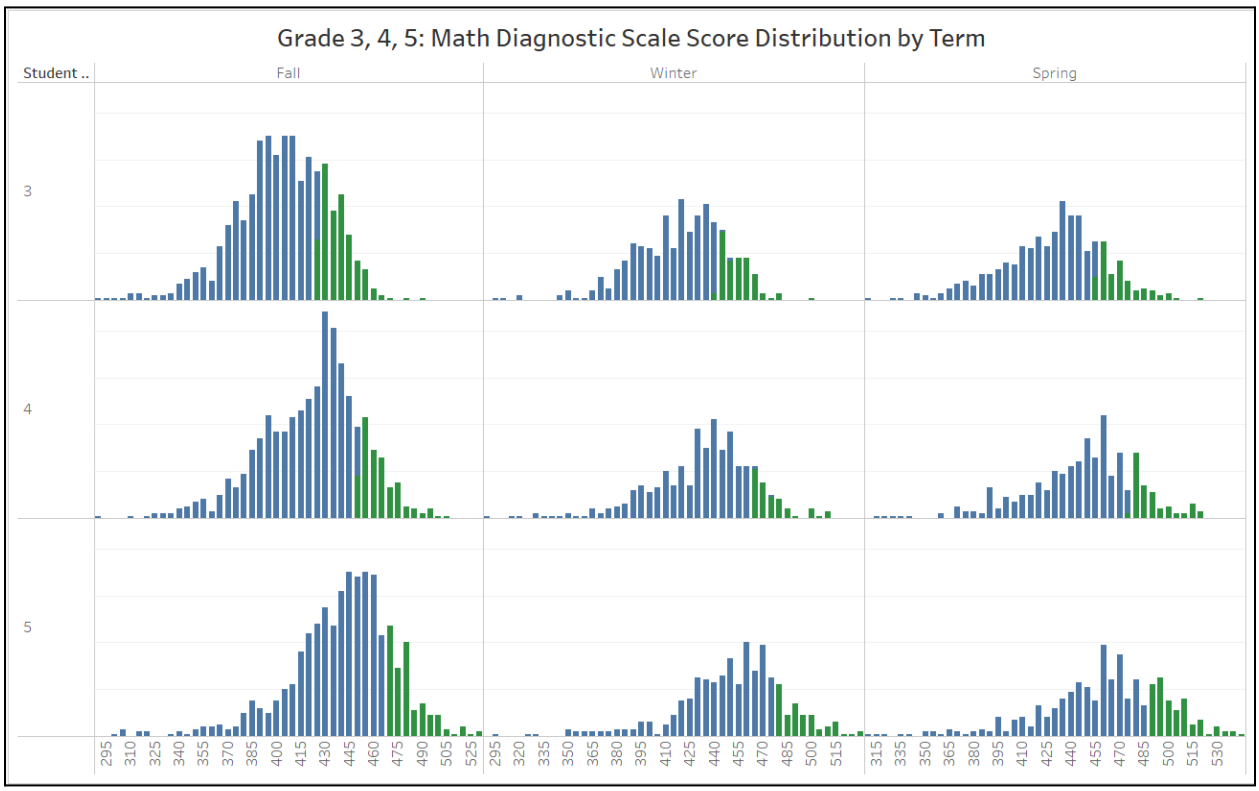
Figure 8

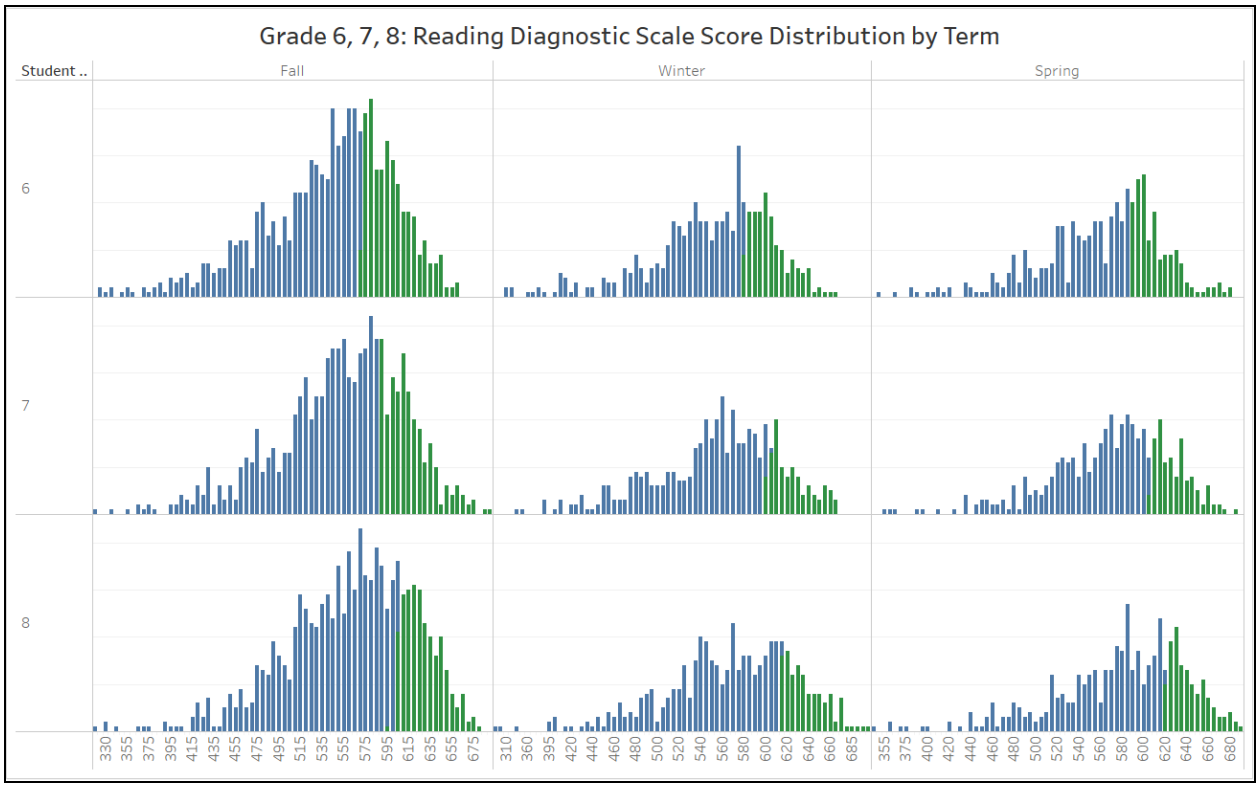
Grades kindergarten through 8th Math and Reading diagnostic scale score distribution






Grade 3, 4, 5: Reading Diagnostic Scale Score Distribution by Term
Student ..
Fall
Winter
Spring
3
4
5
290 310 340 360 380 400 420 440 460 480 500 520 540 560 580 600 620 640
305 335 360 380 400 420 440 460 480 500 520 540 560 580 600 620
315 335 355 375 395 415 435 455 475 495 515 535 555 575 595 615 635 660


Grade 3, 4, 5: Math Diagnostic Scale Score Distribution by Term
Student ..
Fall
Winter
Spring
3
4
5
295 310 325 340 355 370 385 400 415 430 445 460 475 490 505 525
295 320 335 350 365 380 395 410 425 440 455 470 485 500 515
315 335 350 365 380 395 410 425 440 455 470 485 500 515 530


Grade 6, 7, 8: Reading Diagnostic Scale Score Distribution by Term
Student ..
Fall
Winter
Spring
6
7
8
330 355 375 395 415 435 455 475 495 515 535 555 575 595 615 635 655 675
310 360 395 420 440 460 480 500 520 540 560 580 600 620 640 660 685
355 375 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680

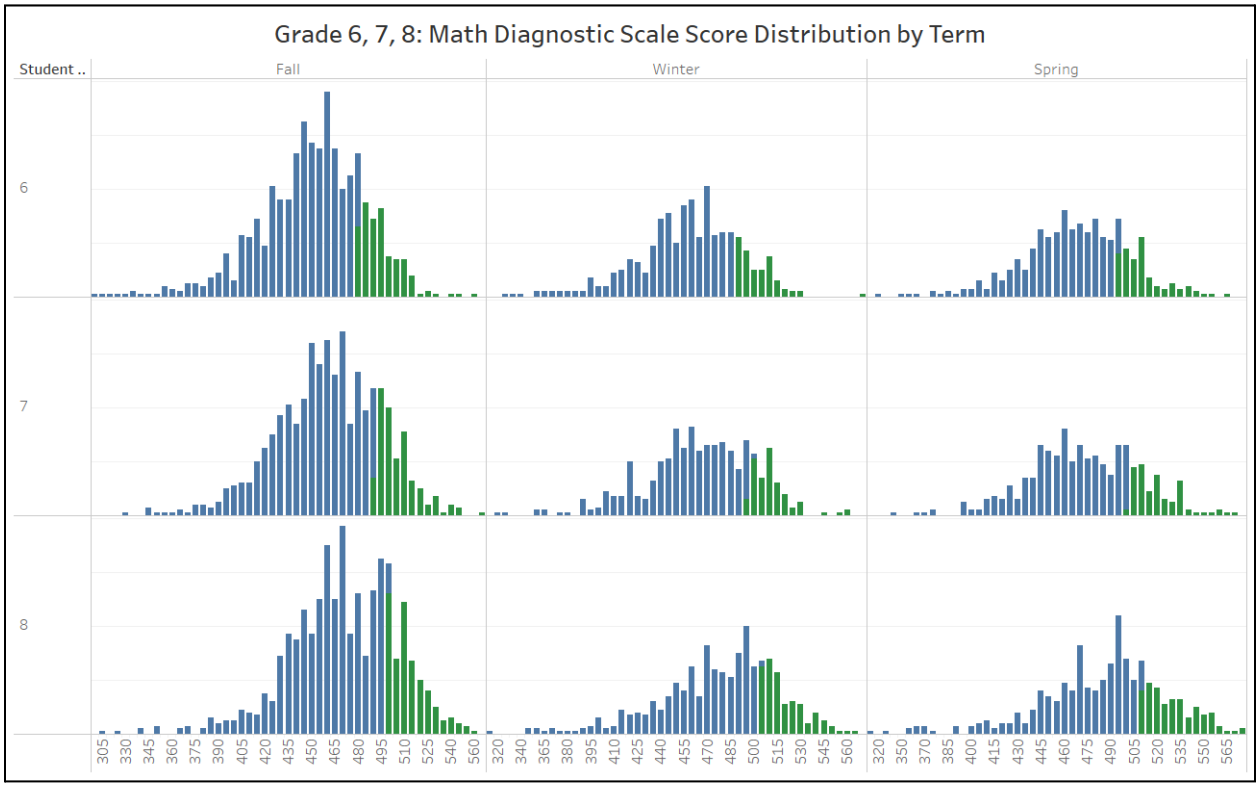
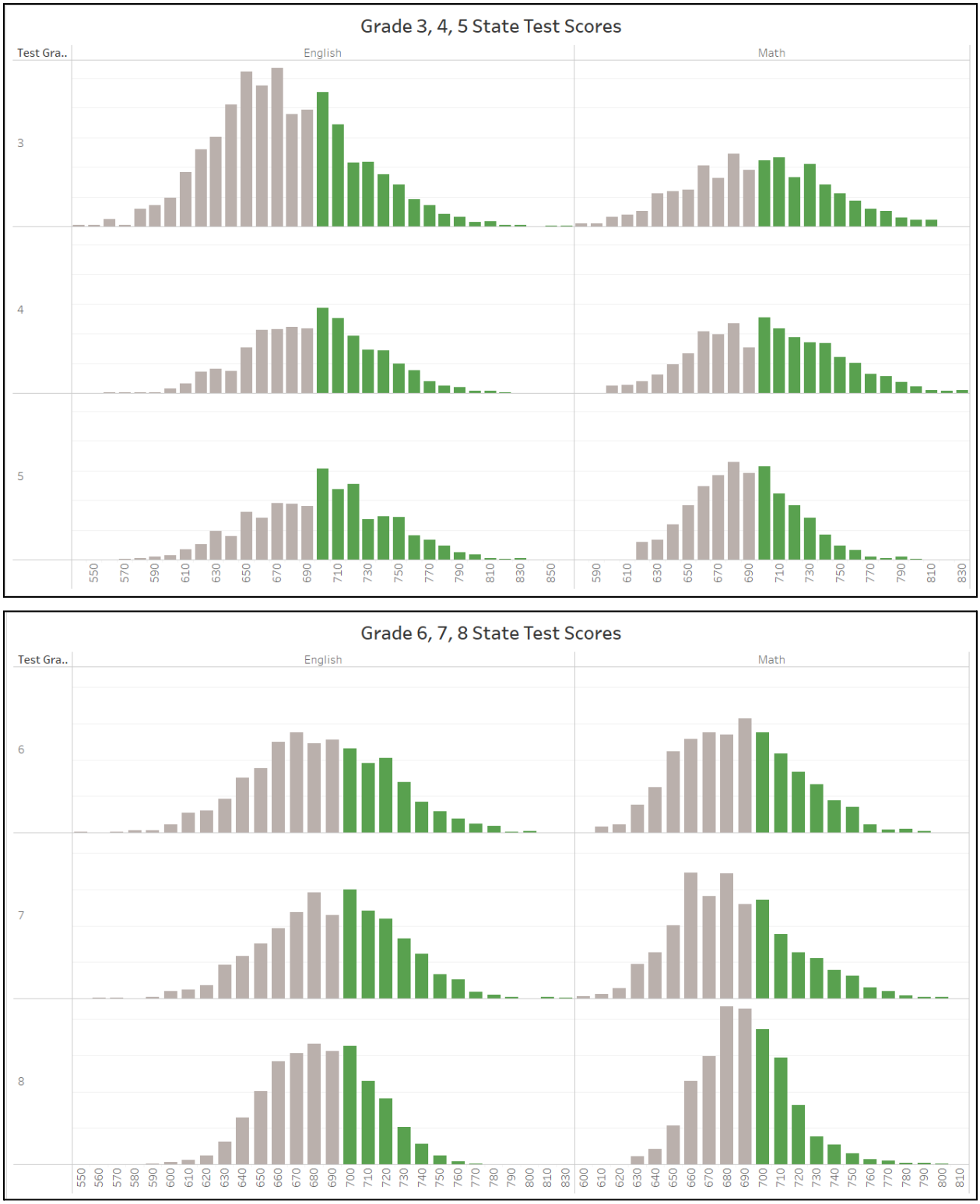
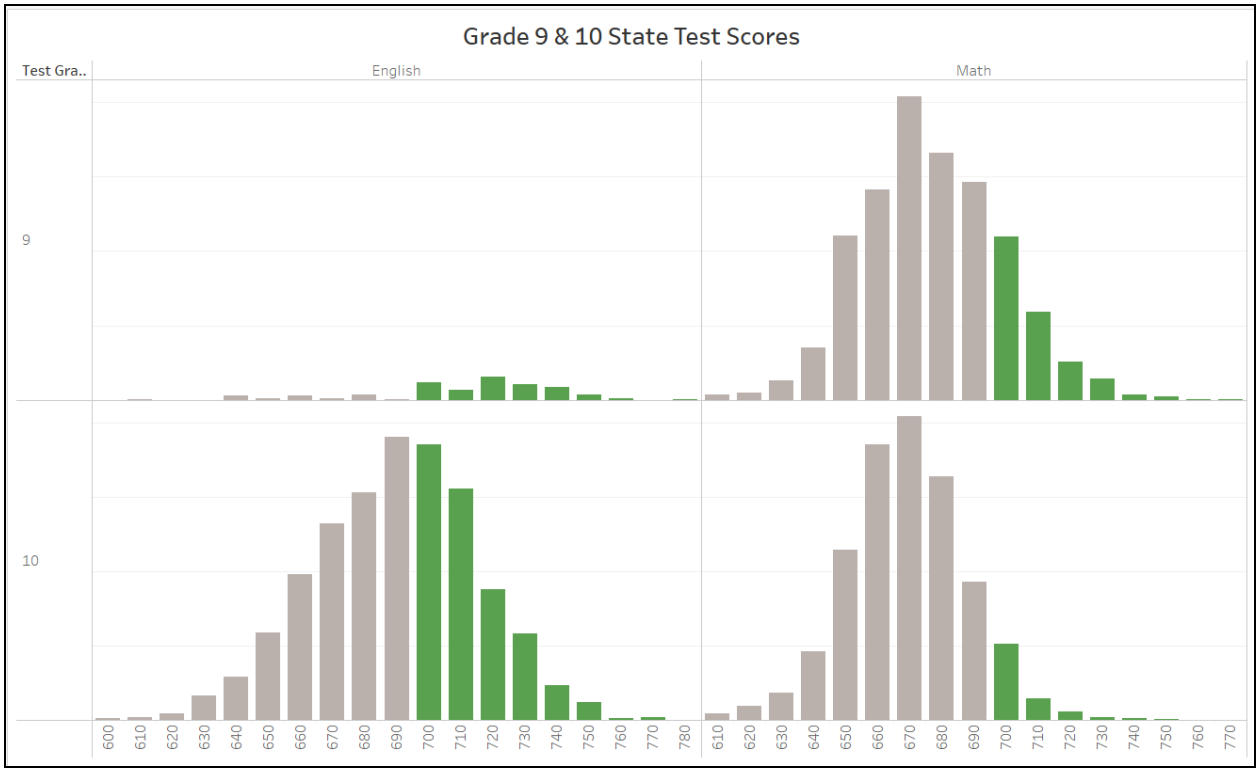

Grade 6, 7, 8: Math Diagnostic Scale Score Distribution by Term
Student ..
Fall
Winter
Spring
6
7
8
305 330 345 360 375 390 405 420 435 450 465 480 495 510 525 540 560
320 340 365 380 395 410 425 440 455 470 485 500 515 530 545 560
320 350 370 385 400 415 430 445 460 475 490 505 520 535 550 565

Figure 9

Grades 3rd to 10th Math and Reading state test scale score distribution




Grade 9 & 10 State Test Scores
Test Gra..
English
Math
9
10
600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780
610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770