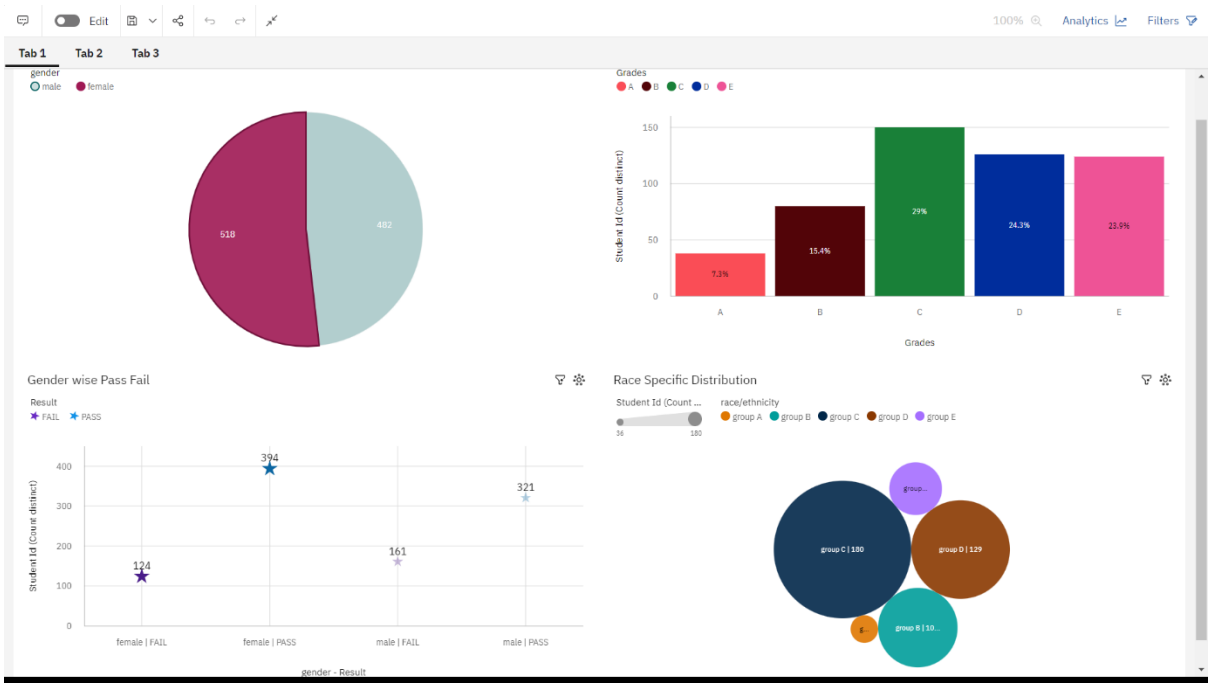
Project Development Phase
Performance Test

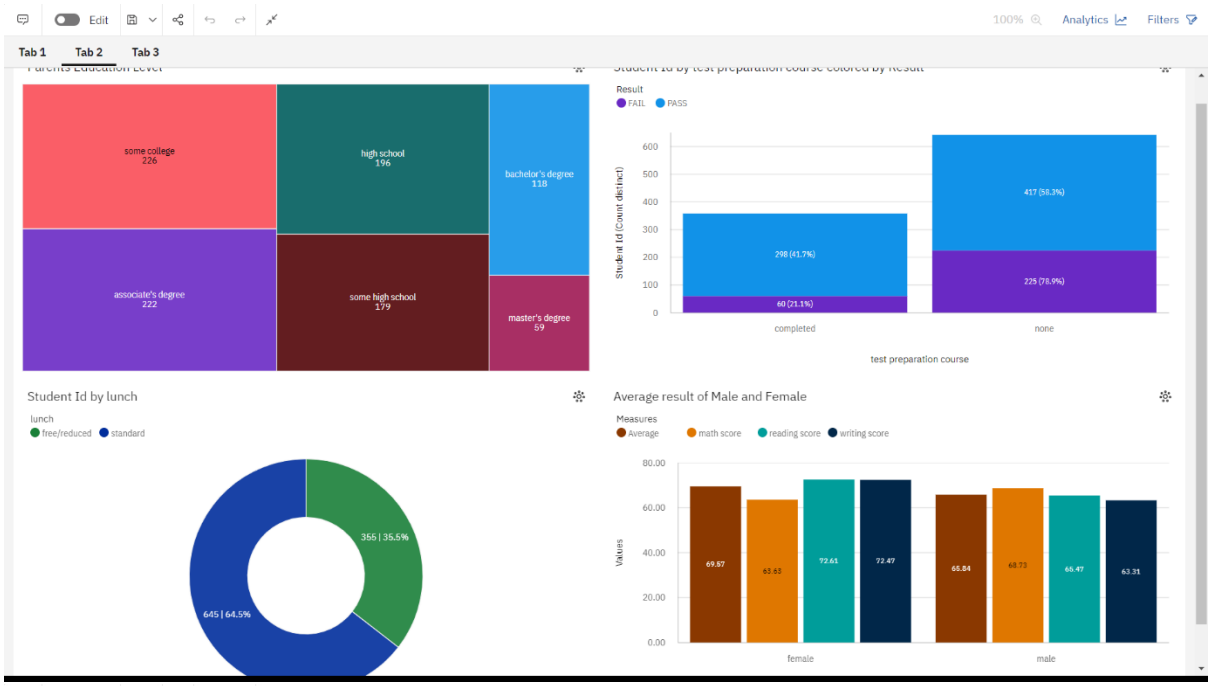
Date	20 October 2023
Team ID	NM2023TMID02554
Project Name	Project – Unleashing the Potential of our Youth – A Student Performance Analysis.

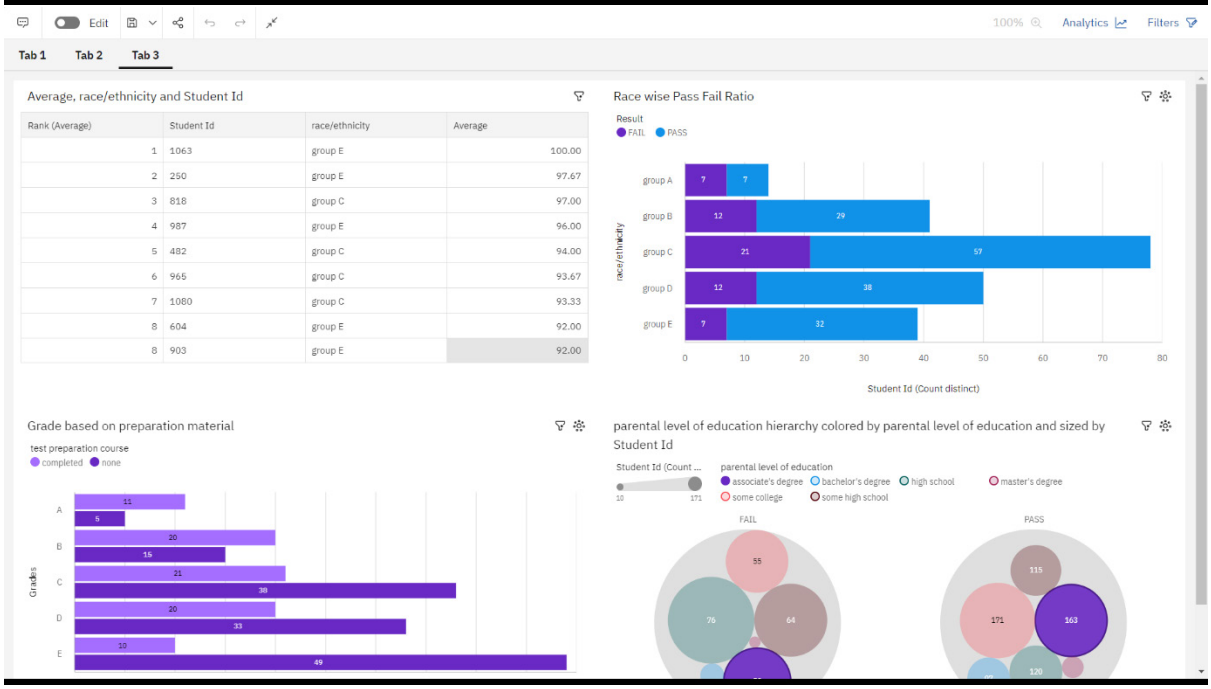
Model Performance Testing:

S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visualizations / Graphs – 12 visualizations and 3 tabs
2.	Data Responsiveness	yes
3.	Utilization of Data Filters	4
4.	Effective User Story	No of Scene Added – 8
5.	Descriptive Reports	No of Visualizations / Graphs – 4

DASHBOARD:

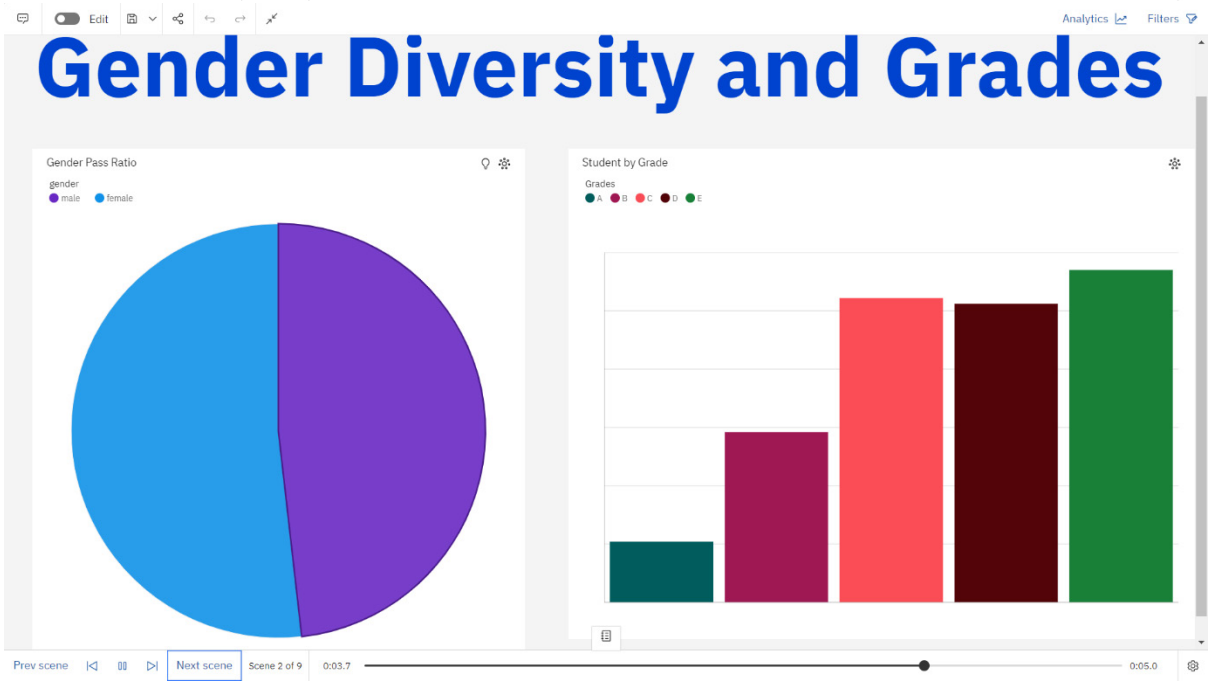


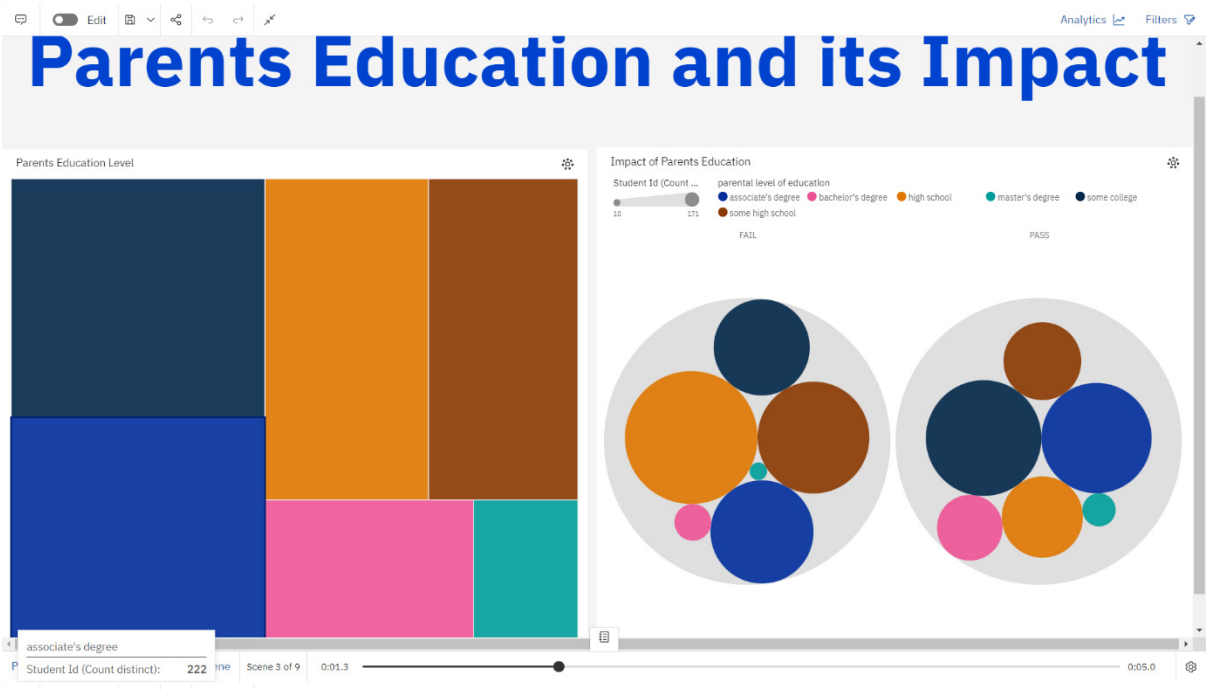

Edit
100%
Analytics
Filters
Tab 1
Tab 2
Tab 3
some college
226
high school
196
bachelor's degree
118
associate's degree
222
some high school
179
master's degree
59
Result
FAIL
PASS
Student Id (Count distinct)
600
500
400
300
200
100
0
298 (41.7%)
60 (21.1%)
417 (58.3%)
225 (78.9%)
completed
none
test preparation course
Student Id by lunch
lunch
free/reduced
standard
355 | 35.5%
645 | 64.5%
Average result of Male and Female
Measures
Average
math score
reading score
writing score
Values
80.00
60.00
40.00
20.00
0.00
69.87
63.65
72.61
72.47
65.84
68.73
65.47
63.31
female
male

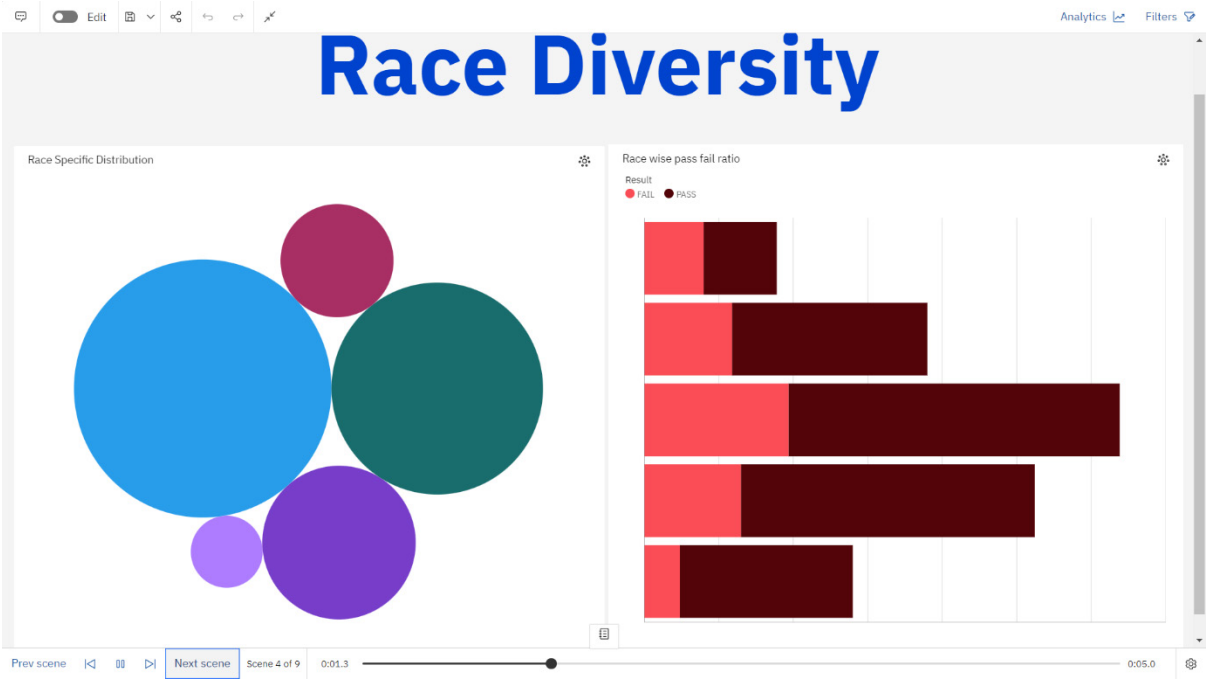

Edit
100%
Analytics
Filters
Tab 1
Tab 2
Tab 3
Average, race/ethnicity and Student Id
Rank (Average)
Student Id
race/ethnicity
Average
1
1063
group E
100.00
2
250
group E
97.67
3
818
group C
97.00
4
987
group E
96.00
5
482
group C
94.00
6
965
group C
93.67
7
1080
group C
93.33
8
604
group E
92.00
8
903
group E
92.00
Race wise Pass Fail Ratio
Result
FAIL
PASS
race/ethnicity
group A
group B
group C
group D
group E
7
7
12
29
21
57
12
38
7
32
0
10
20
30
40
50
60
70
80
Student Id (Count distinct)
Grade based on preparation material
test preparation course
completed
none
Grades
A
B
C
D
E
11
5
20
15
21
38
20
33
10
49
parental level of education hierarchy colored by parental level of education and sized by Student Id
Student Id (Count ...
10
171
parental level of education
associate's degree
bachelor's degree
high school
master's degree
some college
some high school
FAIL
PASS
55
76
64
115
171
163
120

STORY:

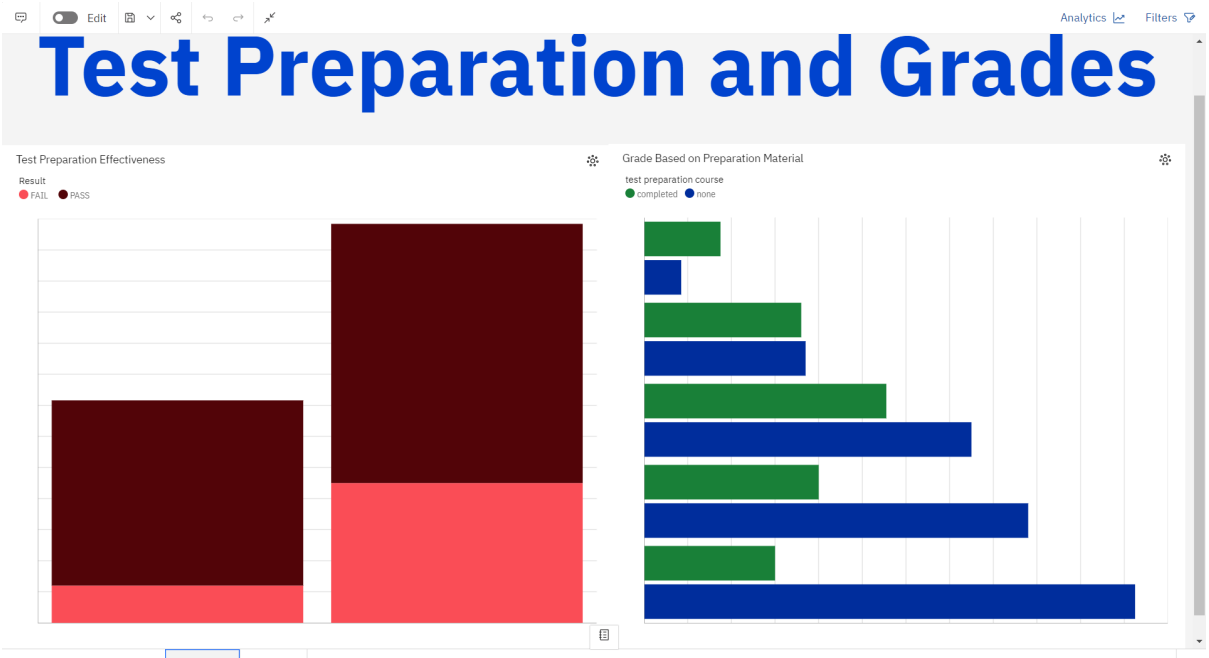
Edit
Analytics
Filters
Prev scene
Next scene
Scene 1 of 9
0:00.0
0:05.0


Edit
Analytics
Filters
Gender Diversity and Grades
Gender Pass Ratio
gender
male
female
Student by Grade
Grades
A
B
C
D
E
Prev scene
Next scene
Scene 2 of 9
0:03.7
0:05.0

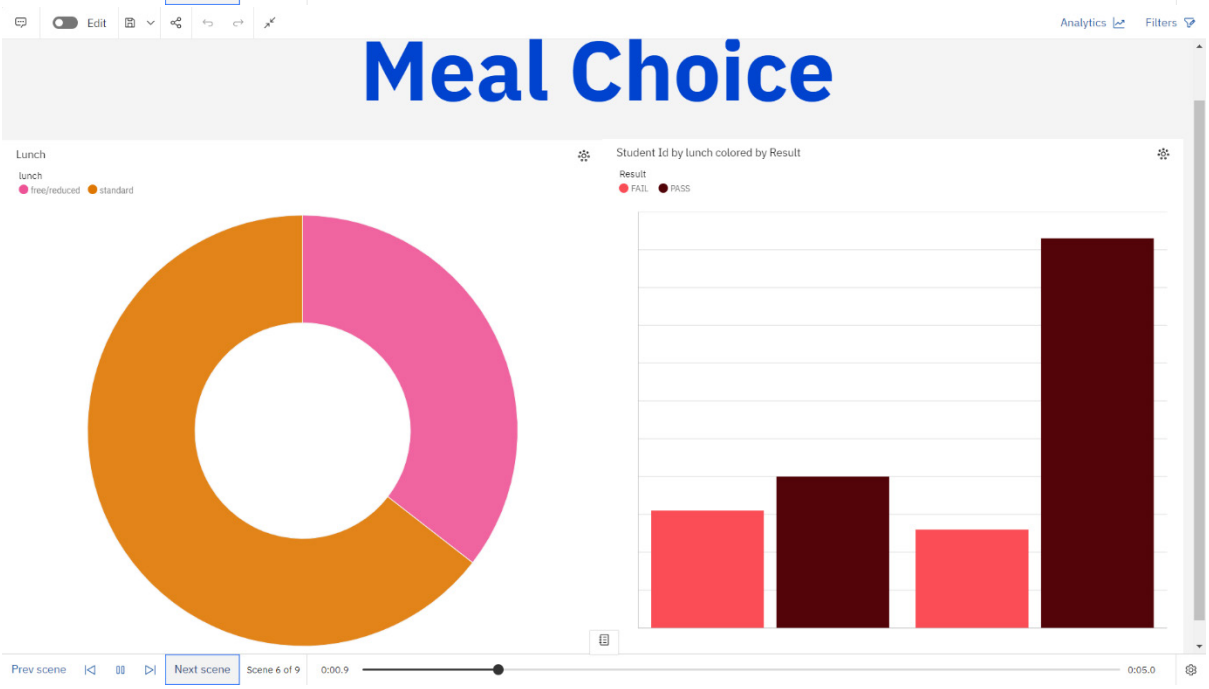

Edit
Analytics
Filters
Parents Education and its Impact
Parents Education Level
Impact of Parents Education
Student Id (Count ...
parental level of education
associate's degree
bachelor's degree
high school
master's degree
some college
some high school
10
171
FAIL
PASS
associate's degree
Student Id (Count distinct): 222
Scene 3 of 9
0:01.3
0:05.0


Edit
Analytics
Filters
Race Diversity
Race Specific Distribution
Race wise pass fail ratio
Result
FAIL
PASS
Prev scene
Next scene
Scene 4 of 9
0:01.3
0:05.0

Test Preparation and Grades



Meal Choice



Top Student and Ranks

Edit Analytics Filters

Top Students

Rank (Average)	Student Id	race/ethnicity	Average
1	1063	group E	100.00
2	250	group E	97.67
3	818	group C	97.00
4	987	group E	96.00
5	482	group C	94.00
6	965	group C	93.67
7	1080	group C	93.33
8	604	group E	92.00
8	903	group E	92.00

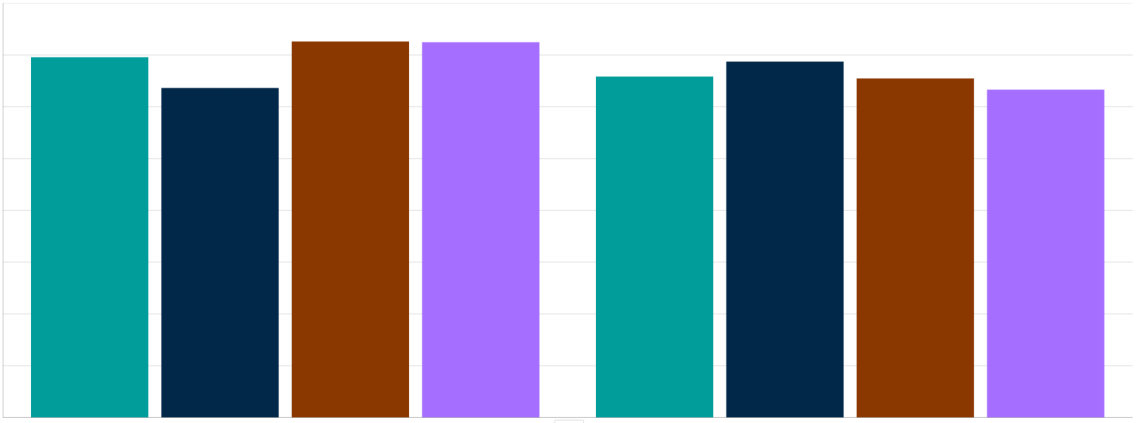
Prev scene Next scene Scene 7 of 9 0:00.9 0:05.0

Edit Analytics Filters

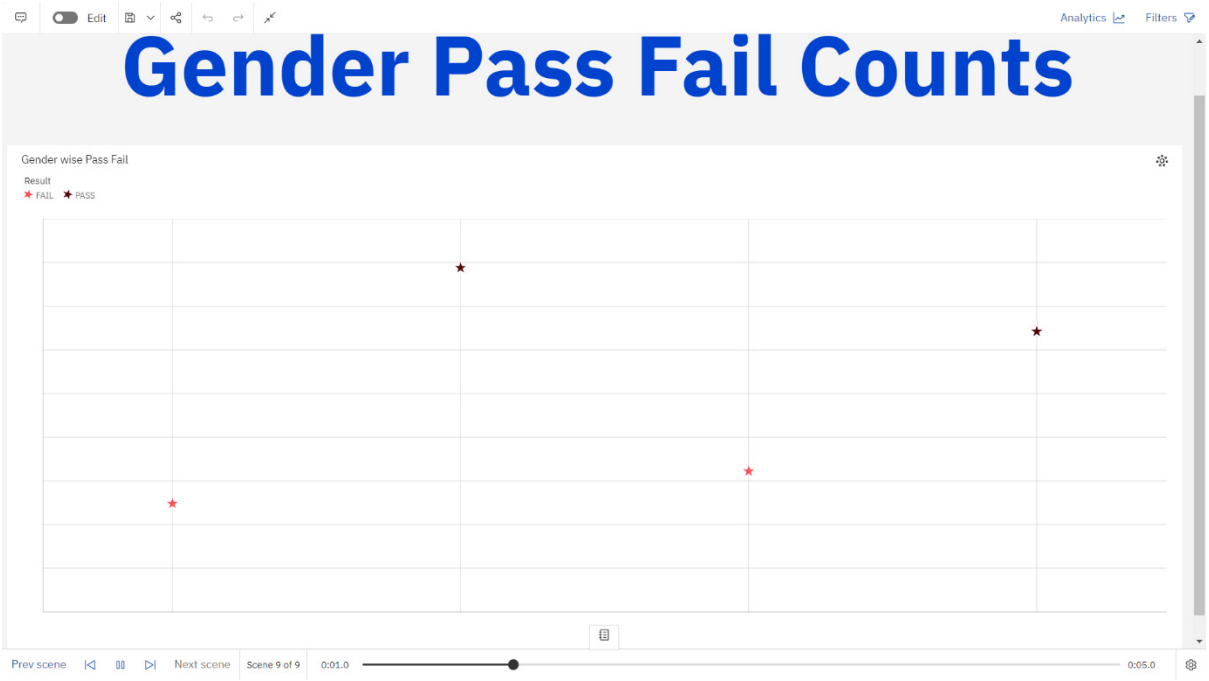
Gender Average Result in Subjects

Average result of Male and Female

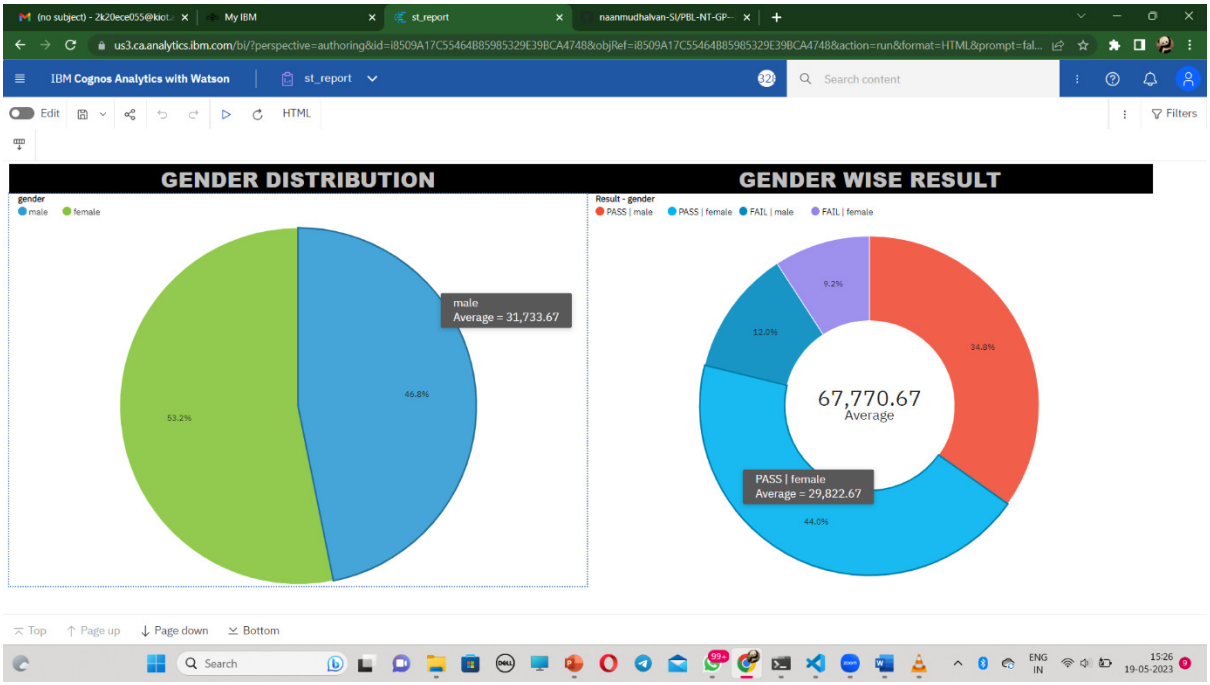
Measures
Average math score reading score writing score

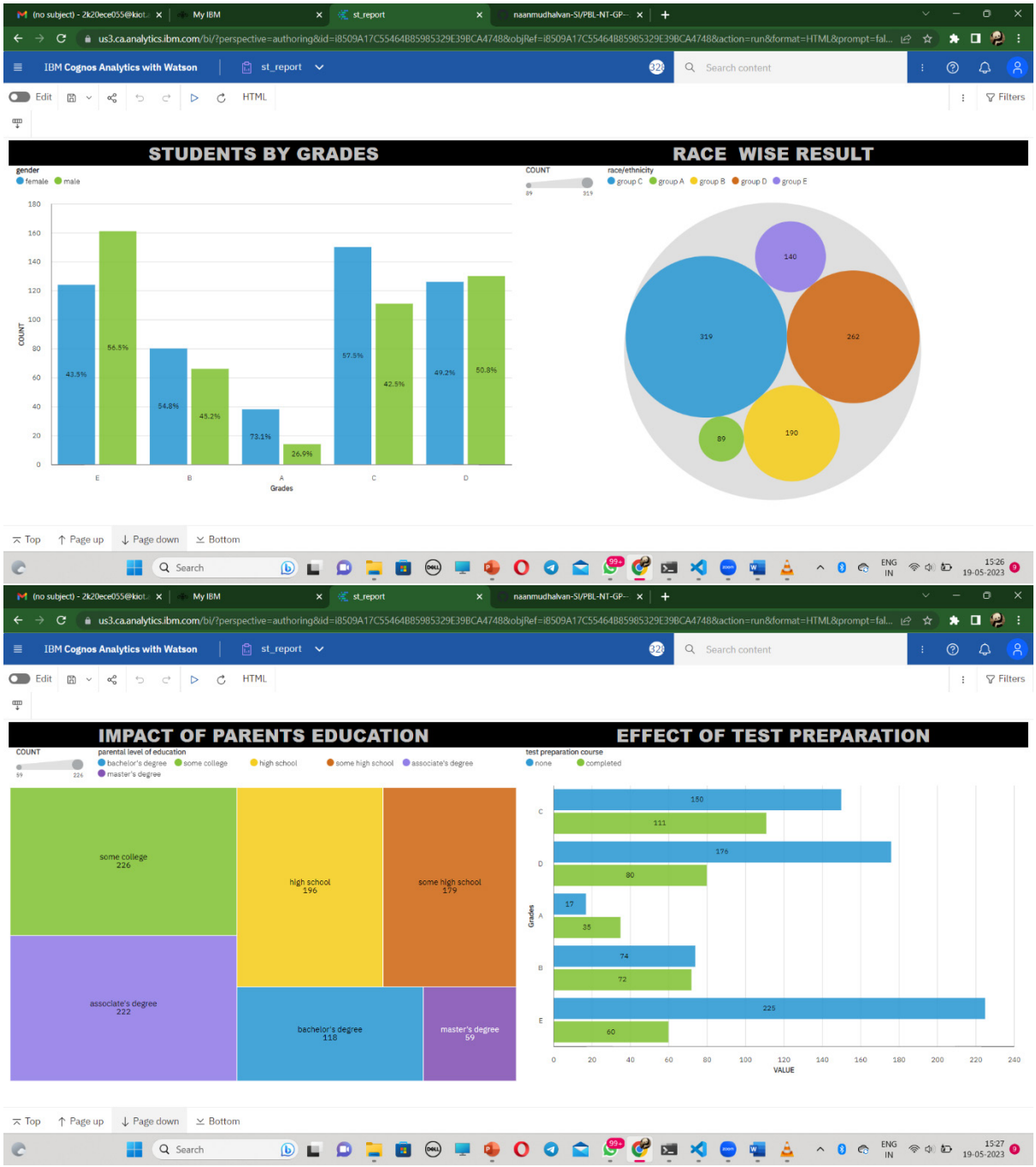


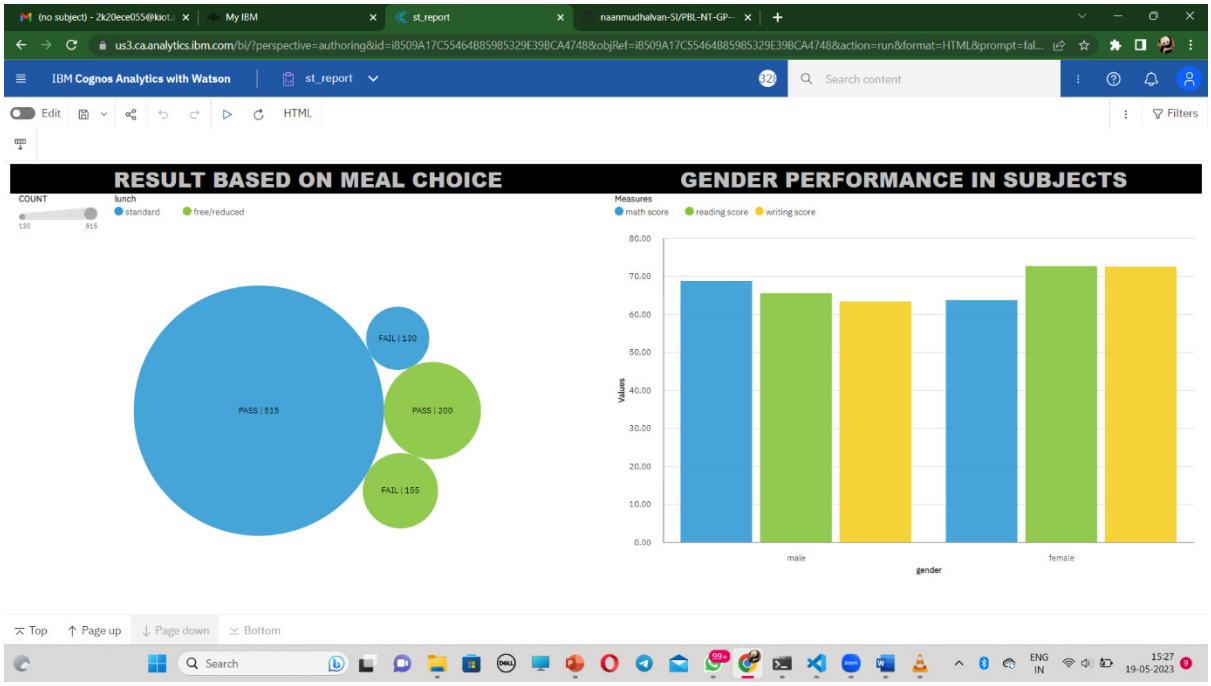
Prev scene Next scene Scene 8 of 9 0:01.8 0:05.0


Edit
Analytics
Filters
Gender Pass Fail Counts
Gender wise Pass Fail
Result
FAIL
PASS
Prev scene
Next scene
Scene 9 of 9
0:01.0
0:05.0

REPORT:


IBM Cognos Analytics with Watson
st_report
Search content
Edit
HTML
Filters
GENDER DISTRIBUTION
GENDER WISE RESULT
gender
male
female
male
Average = 31,733.67
46.8%
53.2%
Result - gender
PASS | male
PASS | female
FAIL | male
FAIL | female
9.2%
12.0%
34.8%
67,770.67
Average
PASS | female
Average = 29,822.67
44.0%
Top
Page up
Page down
Bottom
Search
ENG
IN
15:26
19-05-2023


IBM Cognos Analytics with Watson
st_report
Search content
Edit
HTML
Filters
STUDENTS BY GRADES
gender
female
male
COUNT
Grades
E
B
A
C
D
43.5%
56.5%
54.8%
45.2%
73.1%
26.9%
57.5%
42.5%
49.2%
50.8%
RACE WISE RESULT
COUNT
race/ethnicity
group C
group A
group B
group D
group E
319
262
140
89
190
Top
Page up
Page down
Bottom
Search
ENG
IN
15:26
19-05-2023
IMPACT OF PARENTS EDUCATION
COUNT
parental level of education
bachelor's degree
some college
high school
some high school
associate's degree
master's degree
some college
226
high school
196
some high school
179
associate's degree
222
bachelor's degree
118
master's degree
59
EFFECT OF TEST PREPARATION
test preparation course
none
completed
Grades
VALUE
C
D
A
B
E
150
111
176
80
17
35
74
72
225
60
0
20
40
60
80
100
120
140
160
180
200
220
240
Top
Page up
Page down
Bottom
Search
ENG
IN
15:27
19-05-2023


IBM Cognos Analytics with Watson
st_report
Search content
Edit
HTML
Filters
RESULT BASED ON MEAL CHOICE
GENDER PERFORMANCE IN SUBJECTS
COUNT
lunch
standard
free/reduced
PASS | 515
FAIL | 130
PASS | 200
FAIL | 155
Measures
math score
reading score
writing score
Values
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
male
female
gender
Top
Page up
Page down
Bottom
Search
ENG
IN
15:27
19-05-2023