RCF ACADEMIC PERFORMANCE ANALYSIS

GOAL OF THE ANALYSIS

- TOP 10 STUDENT WITH HIGH PERFORMANCES (IDENTIFIED BY DEPARTMENT)
- TOP 10 STUDENT WITH LOW PERFORMANCES (IDENTIFIED BY DEPARTMENT)
- IDENTIFYING MOST POPULAR ISSUES FACED BY THE STUDENTS
- DEPARTMENT WITH THE TOP PERFORMANCE
- DEPARTMENT WITH THEIR AVERAGE CGPA
- DEPARTMENT WITH THE LEAST PERFORMANCE
- DEPARTMENT BY THEIR NUMBER OF RESPONSE
- AVERAGE CGPA OF ALL STUDENTS

Type $\mathit{Markdown}$ and LaTeX : α^2

In [48]: #importing the data set

import pandas as pd

In [49]: \mid df = pd.read_excel(r"C:\Users\Sammy Reels\Desktop\file.xlsx")

	TIMESTAMP	EMAIL ADDRESS	NAME (SURNAME FIRST)	DEPARTMENT IN SCHOOL	LEVEL	DEPARTMENT(S) IN CHURCH	CURRENT CGPA	WHAT ARE THE ISSUES YOU ARE FACING AS REGARDING YOUR ACADEMICS
0	2025-04-25 18:03:55.937	olamideabisola840@gmail.com	Abayomi Abisola Olamide	Radiography	300	MEDIA	3.21	God is good
1	2025-04-25 18:41:12.558	abiodefrancess002@gmail.com	ABIODE FRANCESS OSHIOKUWE	ANATOMY	400	TECHNICAL, WELFARE	4.63	Ability to read and not fall asleep \n
2	2025-04-25 17:56:10.169	togbvubemsa@gmail.com	Abizu Eseosa	Medicine	400	BIBLE STUDY, WELFARE	5.00	Balance
3	2025-04-27 11:44:18.304	abumerepeter2@gmail.com	Abumere	public administration	300	TECHNICAL	3.40	non
4	2025-04-28 07:00:46.963	vidaraymond84@gmail.com	Abusomwan osagioduwa Vida	Chemistry	200	MEDIA, IT	0.00	None
120	2025-04-25 15:57:59.307	oghenefegohfavour@gmail.com	Tode Oghenefegoh Favour	Agricultural Education	400	MUSIC, PRAYER	3.80	Presently, balancing othe courses with n pro
121	2025-04-27 16:11:29.167	udofiapatience791@gmail.com	Udofia Patience	Philosophy	200	AESTHETICS	2.10	Finding it has assimilate eas and unders
122	2025-04-25 19:07:15,175	osasereuhunmwangho@gmail.com	Uhunmwangho Osasere Victory	Medicine	300	MEDIA, TRF	4.26	Forgetting what read. Bulky academic coursew
123	2025-04-26 08:02:02.619	ukaoluchi091@gmail.com	UKA OLUCHI	ECONOMICS	400	BIBLE STUDY, TRF	3.16	The above CGPA is for m 200 level, Whe my 30
124	2025-04-25 16:16:07.142	usunobuwhinny55@gmail.com	Usunobu Winner	Computer Science	400	MEDIA, PRAYER	4.00	Well I'm in my finals, I need financial suppor
125 r	ows × 9 columns							

Type *Markdown* and LaTeX: α^2

PERFORMING STRUCTURAL ANALYSIS

```
In [50]: df.info()
           <class 'pandas.core.frame.DataFrame'>
           RangeIndex: 125 entries, 0 to 124
           Data columns (total 9 columns):
                                                                        Non-Null Count Dtype
           # Column
           0 TIMESTAMP
                                                                        125 non-null
                                                                                      datetime64[ns]
               EMAIL ADDRESS
                                                                        125 non-null
                                                                                      object
               NAME (SURNAME FIRST)
                                                                        125 non-null
                                                                                      object
              DEPARTMENT IN SCHOOL
                                                                        125 non-null
                                                                                      object
                                                                        125 non-null
               LEVEL
                                                                                      int64
              DEPARTMENT(S) IN CHURCH
                                                                                      object
               CURRENT CGPA
                                                                        125 non-null
                                                                                      float64
               WHAT ARE THE ISSUES YOU ARE FACING AS REGARDING YOUR ACADEMICS? 114 non-null
                                                                                      object
           8 SUMMARY ISSUES
                                                                        125 non-null
                                                                                      object
           dtypes: datetime64[ns](1), float64(1), int64(1), object(6)
           memory usage: 8.9+ KB
In [51]: df.columns
           Index(['TIMESTAMP', 'EMAIL ADDRESS', 'NAME (SURNAME FIRST)'
                  'DEPARTMENT IN SCHOOL', 'LEVEL', 'DEPARTMENT(S) IN CHURCH',
                 'CURRENT CGPA'
                 'WHAT ARE THE ISSUES YOU ARE FACING AS REGARDING YOUR ACADEMICS?',
                 'SUMMARY ISSUES'],
                dtype='object')
           Type Markdown and LaTeX: \alpha^2
           PERFORMING DESCRIPTIVE STATISTICAL ANALYSIS
In [52]:| df.describe()
                TIMESTAMP
                                           LEVEL
                                                      CURRENT CGPA
                                            125.000000 125.000000
          mean 2025-04-26 08:33:07.407936256 294.400000 3.160616
               2025-04-25 15:37:10.916000 100.000000 0.000000
               2025-04-25 17:38:33.540999936 200.000000 3.000000
                2025-04-25 22:25:09.487000064 300.000000 3.620000
                2025-04-26 17:03:15.992999936 400.000000 4.110000
                2025-04-29 02:46:56.152000 600.000000 5.000000
          std
                                           102.629933 1.503337
           Type Markdown and LaTeX: \alpha^2
           CHECKING FOR MISSING VALUES AND DUPLICATE
In [53]: df.isnull().sum() #Checking for missing values
           TIMESTAMP
           EMAIL ADDRESS
           NAME (SURNAME FIRST)
           DEPARTMENT IN SCHOOL
           LEVEL
           WHAT ARE THE ISSUES YOU ARE FACING AS REGARDING YOUR ACADEMICS?
           SUMMARY ISSUES
           dtype: int64
           INSIGHT
           From the information above, the "WHAT ARE THE ISSUES YOU ARE FACING AS REGARDING YOUR
           ACADEMICS?" field is observed to have "11" missing values but those missing values has been corrected on
           Excel software with the "SUMMARY ISSUES" field.
            Type Markdown and LaTeX: \alpha^2
In [54]: | df.duplicated().sum() #Checking for duplicates
           INSIGHT
           From the above information, no duplicate record is observed.
```

Type *Markdown* and LaTeX: $lpha^2$ DIVING INTO THE ANALYSIS TOP 10 STUDENT WITH HIGH PERFORMANCES (IDENTIFIED BY DEPARTMENT) TOP 10 STUDENT WITH LOW PERFORMANCES (IDENTIFIED BY DEPARTMENT) IDENTIFYING MOST POPULAR ISSUES FACED BY THE STUDENTS • DEPARTMENT WITH THE TOP PERFORMANCE DEPARTMENT WITH THEIR AVERAGE CGPA • DEPARTMENT WITH THE LEAST PERFORMANCE AVERAGE CGPA OF ALL STUDENTS Type *Markdown* and LaTeX: α^2 TOP 10 STUDENT WITH HIGH PERFORMANCES (IDENTIFIED BY DEPARTMENT) In [55]: df WHAT ARE THE ISSUES NAME (SURNAME YOU ARE FACING AS DEPARTMENT DEPARTMENT(S) CURRENT LEVEL TIMESTAMP EMAIL ADDRESS IN SCHOOL IN CHURCH **CGPA** REGARDING YOUR FIRST) ACADEMICS Abayomi Abisola 2025-04-25 18:03:55.937 olamideabisola840@gmail.com Radiography MEDIA 3.21 300 God is good Olamide ABIODE Ability to read TECHNICAL, FRANCESS OSHIOKUWE and not fall asleep \n abiodefrancess002@gmail.com ANATOMY 400 4.63 2025-04-25 17:56:10.169 Medicine 400 5.00 Balance togbvubemsa@gmail.com Abizu Eseosa WELFARE 2025-04-27 abumerepeter2@gmail.com Abumere 300 **TECHNICAL** 3.40 non 11:44:18.304 . administration Abusomwan 2025-04-28 Chemistry vidaraymond84@gmail.com osagioduwa Vida 200 MEDIA, IT 0.00 Presently, 2025-04-25 Agricultural balancing othe MUSIC PRAYER 120 oghenefegohfavour@gmail.com Oghenefegoh 400 3.80 15:57:59 307 Education courses with n Udofia AESTHETICS 121 udofiapatience791@gmail.com Philosophy 200 2.10 assimilate eas 16:11:29.167 Patience and unders... Forgetting what read. Bulky academic Uhunmwangho Medicine MEDIA, TRF osasereuhunmwangho@gmail.com 300 4.26 19:07:15.175 Victory coursew.. The above CGPA is for m 2025-04-26 ukaoluchi091@gmail.com UKA OLUCHI ECONOMICS 400 BIBLE STUDY, TRF 3.16 08:02:02.619 my 30. Well I'm in my 2025-04-25 Usunobu Computer finals. I need 124 usunobuwhinny55@gmail.com 400 MEDIA, PRAYER 4.00 16:16:07.142 suppor.. 125 rows × 9 columns In [56]: top_10_high_performance = (df.sort_values(by = "CURRENT CGPA", ascending = False).head(10)).loc[:, ["NAME (! top_10_high_performance #Identifying the top 10 student with their name, department in school and their cgpa and level NAME (SURNAME FIRST) **DEPARTMENT IN SCHOOL** CURRENT CGPA LEVEL Abizu Eseosa Medicine 5.000 400 29 Avoro Excel Geomatics 5.000 100 33 BRAIMAH GIDEON ASEKHAME Mechanical Engineering 4.880 300 94 Oke Avomide Ibukun International Studies and Diplomacy 4.830 300 58 Ikpotokin-Ab Fortune Osazee Chemical Engineering 4.750 400 68 JACOB DANIEL ENYOOJO Petroleum Engineering 4.694 200 50 Fredrick Hannah Ese Medicine 4.630 300 ABIODE FRANCESS OSHIOKUWE ANATOMY 4.630 400 99 OLUSAYO AYOMIKUN MESHACK MEDICINE 4.530 200 15 Ajayi Esosa Peace 4.500 100 Finance INSIGHT From the above analysis, it is observed that a "100 LEVEL" student is having a cgpa which is not supposed to be so until "200 LEVEL". Hence any "100 LEVEL" with a cgpa greater than 0 would be dropped.

localhost:8888/notebooks/Desktop/RCF ANALYSIS/RCF ACADEMIC PERFORMANCE ANALYSIS.ipynb

ESTAMP E 5-04-25 3:55.937 5-04-25 1:12.558 6:10.169	ECORDS OF STUDENT IN EMAIL ADDRESS Dlamideabisola840@gmail.com abiodefrancess002@gmail.com togbvubemsa@gmail.com abumerepeter2@gmail.com	NAME (SURNAME FIRST) Abayomi Abisola Olamide ABIODE FRANCESS OSHIOKUWE Abizu Eseosa	DEPARTMENT IN SCHOOL Radiography ANATOMY Medicine	LEVEL 300 400	DEPARTMENT(S) IN CHURCH MEDIA TECHNICAL, WELFARE	CURRENT CGPA 3.21 4.63	and not fall
5-04-25 3:55.937 c 5-04-25 1:12.558 a 5-04-25 6:10.169 t	olamideabisola840@gmail.com abiodefrancess002@gmail.com ogbvubemsa@gmail.com	Abayomi Abisola Olamide ABIODE FRANCESS OSHIOKUWE Abizu Eseosa	Radiography ANATOMY	300	MEDIA TECHNICAL, WELFARE	3.21	THE ISSUE YOU ARE FACING AS REGARDIN YOUR ACADEMIC God is good Ability to read and not fall
5-04-25 3:55.937 c 5-04-25 1:12.558 a 5-04-25 6:10.169 t	olamideabisola840@gmail.com abiodefrancess002@gmail.com ogbvubemsa@gmail.com	Abayomi Abisola Olamide ABIODE FRANCESS OSHIOKUWE Abizu Eseosa	Radiography ANATOMY	300	MEDIA TECHNICAL, WELFARE	3.21	THE ISSUE YOU ARE FACING AS REGARDIN YOUR ACADEMIC
3:55.937	abiodefrancess002@gmail.com	Abisola Olamide ABIODE FRANCESS OSHIOKUWE Abizu Eseosa	ANATOMY	400	TECHNICAL, WELFARE		Ability to read and not fall
1:12.558 ^a 5-04-25 6:10.169 ^b 5-04-27	iogbvubemsa@gmail.com	FRANCESS OSHIOKUWE Abizu Eseosa			WELFARE	4.63	
6:10.169 ¹ 5-04-27			Medicine	400			asleep \n
	abumerepeter2@gmail.com	A I			BIBLE STUDY, WELFARE	5.00	Balance
		Abumere	public administration	300	TECHNICAL	3.40	non
5-04-28 0:46.963	vidaraymond84@gmail.com	Abusomwan osagioduwa Vida	Chemistry	200	MEDIA, IT	0.00	None
5-04-25 7:59.307	oghenefegohfavour@gmail.com	Tode Oghenefegoh Favour	Agricultural Education	400	MUSIC, PRAYER	3.80	Presently, balancing other courses with r pro
5-04-27 1:29.167	udofiapatience791@gmail.com	Udofia Patience	Philosophy	200	AESTHETICS	2.10	Finding it has assimilate eas and unders
5-04-25 7:15.175	osasereuhunmwangho@gmail.com	Uhunmwangho Osasere Victory	Medicine	300	MEDIA, TRF	4.26	Forgetting wh read. Bulky academic coursew
5-04-26 2:02.619	ukaoluchi091@gmail.com	UKA OLUCHI	ECONOMICS	400	BIBLE STUDY, TRF	3.16	The above CGPA is for m 200 level, Wh my 30
5-04-25 6:07.142	usunobuwhinny55@gmail.com	Usunobu Winner	Computer Science	400	MEDIA, PRAYER	4.00	Well I'm in my finals, I need financial suppor
7 5-2	.15.175 (04-26 (02.619 (04-25	04-26 02.619 ukaoluchi091@gmail.com 04-25 07.142 usunobuwhinny55@gmail.com	04-26 ukaoluchi091@gmail.com UKA OLUCHI 04-25 usunobuwhinny55@gmail.com Usunobu Winner	osasereuhunmwangho@gmail.com Osasere Victory Medicine 15.175 osasereuhunmwangho@gmail.com UKA OLUCHI ECONOMICS 04-26 ovasereuhunmwangho@gmail.com UKA OLUCHI ECONOMICS 04-25 ovasereuhunmwangho@gmail.com UKA OLUCHI ECONOMICS 04-25 ovasereuhunmwangho@gmail.com UKA OLUCHI ECONOMICS	04-26 ukaoluchi091@gmail.com UKA OLUCHI ECONOMICS 400 04-25 usunobuwhinny55@gmail.com Usunobu Winner Science 400	osasereuhunmwangho@gmail.com Osasere Victory Medicine 300 MEDIA, TRF 04-26 oo2.619 ukaoluchi091@gmail.com UKA OLUCHI ECONOMICS 400 BIBLE STUDY, TRF 04-25 oo3asereuhunmwangho@gmail.com UKA OLUCHI ECONOMICS 400 BIBLE STUDY, TRF 04-25 oo3asereuhunmwangho@gmail.com UKA OLUCHI ECONOMICS 400 MEDIA, PRAYER 04-26 oo3asereuhunmwangho@gmail.com UKA OLUCHI ECONOMICS 400 MEDIA, PRAYER	04-26 ukaoluchi091@gmail.com UKA OLUCHI ECONOMICS 400 BIBLE STUDY, TRF 3.16 04-25 usunobuwhinny55@gmail.com Usunobu Winner Science 400 MEDIA, PRAYER 4.00

7	TIMESTAMP	EMAIL ADDRES	s	NAME (SURNAME FIRST)	DEPARTMENT IN SCHOOL	LEVEL	DEPARTMENT(S) IN CHURCH	CURRENT CGPA	W TH YC FA RE YC AC
	2025-04-25 18:03:55.937	olamideabisola840	@gmail.com	Abayomi Abisola Olamide	Radiography	300	MEDIA	3,21	Go
	2025 - 04 - 25 18:41:12,558	abiodefrancess002	@gmail.com	ABIODE FRANCESS OSHIOKUWE	ANATOMY	400	TECHNICAL, WELFARE	4.63	Ab an as
	2025-04-25 17:56:10.169	togbvubemsa@gm	ail.com	Abizu Eseosa	Medicine	400	BIBLE STUDY, WELFARE	5.00	Ва
	2025 - 04-27 11:44:18.304	abumerepeter2@g	mail.com	Abumere	public administration	300	TECHNICAL	3.40	nc
	2025-04-28 07:00:46.963	vidaraymond84@g	mail.com	Abusomwan osagioduwa Vida	Chemistry	200	MEDIA, IT	0.00	N
	2025-04-25 15:57:59.307	oghenefegohfavou	r@gmail.com	Tode Oghenefegoh Favour	Agricultural Education	400	MUSIC, PRAYER	3.80	Pr ba cc pr
	2025-04-27 16:11:29.167	udofiapatience791	@gmail.com	Udofia Patience	Philosophy	200	AESTHETICS	2.10	Fi as ar
	2025-04 - 25 19:07:15.175	osasereuhunmwan	gho@gmail.com	Uhunmwangho Osasere Victory	Medicine	300	MEDIA, TRF	4.26	re ac
	2025-04-26 08:02:02.619	ukaoluchi091@gm	ail.com	UKA OLUCHI	ECONOMICS	400	BIBLE STUDY, TRF	3.16	Th Co 20
									m
124 1	2025-04-25 16:16:07.142 ws × 9 columns	usunobuwhinny55(@gmail.com	Usunobu Winner	Computer Science	400	MEDIA, PRAYER	4.00	W fin
Typ IDE DA top_1 top_1	De Markdow ENTIFYING TASET	m and LaTeX: THE TOP 5 S formance = (df formance	α ² TUDENT WI	Winner ITH THE HIG S(by = "CURRI	Science SHEST PERFO	ORMAN	MEDIA, PRAYER ICE AGAIN AFT = False).head(1 their cgpa and	ER ALTEF (9)).loc[:,	W fin fin su
Typ IDE DA top_1 top_1 #Iden	De Markdow ENTIFYING TASET	m and LaTeX: THE TOP 5 S formance = (df formance e top 5 studen	α ² TUDENT WI s.sort_values of with their DEPARTMEN	TTH THE HICE s(by = "CURRI	Science SHEST PERFO	ORMAN cending pool and	ICE AGAIN AFT = False).head(1 their cgpa and	ER ALTEF (9)).loc[:,	
Typ IDE DA	De Markdown ENTIFYING TASET -0_high_per0_high_per	n and LaTeX: THE TOP 5 S formance = (df formance e top 5 studen AME FIRST)	TUDENT WI s. sort_values at with their DEPARTMEN Medicine	TIN SCHOOL	Science GHEST PERFO ENT CGPA", asc rtment in school CURRENT C 5.000	ORMAN cending pool and cegpa LE	= False).head(1 their cgpa and	ER ALTEF (9)).loc[:,	Win fin fin su
Typ IDE DA top_1 top_1 #Iden N. A. S.	De Markdown ENTIFYING TASET -0_high_per0_high_per	In and LaTeX: THE TOP 5 S formance = (df formance e top 5 studen AME FIRST)	TUDENT WI 5. sort_values at with their DEPARTMENT Medicine Mechanical Eng	TIN SCHOOL	ENT CGPA", asc crtment in school	ORMAN cending pool and	= False).head(1 their cgpa and EVEL 0	ER ALTEF (9)).loc[:,	W fin fin su
Typ IDE DA top_1 top_1 #Iden N. Al 2 Al 33 BF 94 OI	De Markdown ENTIFYING TASET O_high_per O_high_per Otifying the AME (SURNA DIZUESEOSA RAIMAH GIDEO	In and LaTeX: THE TOP 5 S formance = (df formance e top 5 studen AME FIRST) DN ASEKHAME kun	TUDENT WI 5. sort_values at with their DEPARTMENT Medicine Mechanical Eng	TIN SCHOOL ineering idies and Diploma	ENT CGPA", asc crtment in school	ORMAN cending pool and GGPA LE 40 30	= False).head(1 their cgpa and EVEL 0 0	ER ALTEF (9)).loc[:,	W fin fin su
Typ IDE DA top_1 top_1 #Iden N. A. A. B.	De Markdown ENTIFYING TASET O_high_per- o_tifying the AME (SURNA bizu Eseosa RAIMAH GIDEC ke Ayomide Ibu	In and LaTeX: THE TOP 5 S formance = (df formance e top 5 studen AME FIRST) DN ASEKHAME kun une Osazee	TUDENT WI Sort_values It with their DEPARTMENT Medicine Mechanical Eng International Stu	TIN SCHOOL invering idies and Diplomateering	ENT CGPA", asc retment in school CURRENT C 5.000 4.880 acy 4.830	ORMAN cending bol and 40 30 30	= False).head(1 their cgpa and EVEL 0 0 0	ER ALTEF (9)).loc[:,	W fin fin su
Typ IDE DA top_1 #Iden N 2 At 33 Bi 94 OI 58 lkl 68 JA	De Markdown ENTIFYING TASET O_high_per- otifying the MAME (SURNA bizu Eseosa RAIMAH GIDEC ke Ayomide Ibu potokin-Ab Fort	rn and LaTeX: THE TOP 5 S formance = (df formance e top 5 studen AME FIRST) DN ASEKHAME kun rune Osazee ENYOOJO	TUDENT WI Sort_values The with their DEPARTMENT Medicine Mechanical Engine Chemical Engine	TIN SCHOOL invering idies and Diplomateering	ENT CGPA", asc rtment in school CURRENT C 5.000 4.880 acy 4.830 4.750	DRMAN cending bool and 40 30 30 40	Their cgpa and EVEL 0 0 0 0	ER ALTEF (9)).loc[:,	W fin fin su
Typ IDE DA top_1 top_1 #Iden N. 2 At 33 Bt 94 OI 58 lk 68 JA 50 Fr	De Markdow ENTIFYING TASET O_high_per- O_high_per- Otifying the EXAMPLE (SURNA DIZU ESEOSA RAIMAH GIDEC KAR AYOMIDE Ibu POTOKIN-AB FORTA ACOB DANIEL I Tredrick Hannah	rn and LaTeX: THE TOP 5 S formance = (df formance e top 5 studen AME FIRST) DN ASEKHAME kun rune Osazee ENYOOJO	TUDENT WI Sourt_values The with their DEPARTMEN Medicine Mechanical Engine Methodous Engine Methodous Engine Medicine	TIN SCHOOL invering idies and Diplomateering	CURRENT C 5.000 4.880 4.750 4.694	DORMAN cending pool and 40 30 40 20	Their cgpa and EVEL 0 0 0 0	ER ALTEF (9)).loc[:,	W fir fir su
Typp IDE DA top_1 top_1 #Iden N. 2 At 8 33 BF 94 OI 558 lkl 68 JA 50 Fr 1 At 8	De Markdow ENTIFYING TASET O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_N- O_O_O_O_O_O- O_O_O_O- O_O_O_O- O_O_O- O_O_O- O_O_O- O_O_O- O_O_O- O_O_O- O_O_O- O_O-	rn and LaTeX: THE TOP 5 S formance = (df formance e top 5 studen AME FIRST) ON ASEKHAME kun une Osazee ENYOOJO Ese	TUDENT WI Sourt_values The with their DEPARTMEN Medicine Mechanical Engine Methodous Engine Methodous Engine Medicine	TIN SCHOOL invering idies and Diplomateering	CURRENT C 5.000 4.880 4.750 4.694 4.630	DORMAN cending pol and 40 30 40 20 30	Their cgpa and EVEL 0 0 0 0 0 0	ER ALTEF (9)).loc[:,	W fir fir su
Typp IDE DA top_1 top_1 #Iden N 2 At 33 BF 94 OI 68 JA 50 Fr 1 At 99 OI	De Markdow ENTIFYING TASET O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_high_per- O_O_N- O_O_O_O_O_O- O_O_O_O- O_O_O_O- O_O_O- O_O_O- O_O_O- O_O_O- O_O_O- O_O_O- O_O_O- O_O-	rn and LaTeX: THE TOP 5 S formance = (df formance e top 5 studen AME FIRST) DN ASEKHAME kun une Osazee ENYOOJO Ese ESS OSHIOKUWE	TUDENT WI Sort_values It with their DEPARTMEN Medicine Mechanical Engine Petroleum Engine Medicine ANATOMY	TIN SCHOOL invering idies and Diplomateering	EHEST PERFO ENT CGPA", asc rtment in school 5.000 4.880 4.750 4.694 4.630 4.630	DORMAN Cending DOL and 40 30 40 20 30 40	TCE AGAIN AFT = False).head(1 their cgpa and EVEL 0 0 0 0 0 0	ER ALTEF (9)).loc[:,	fii fii si

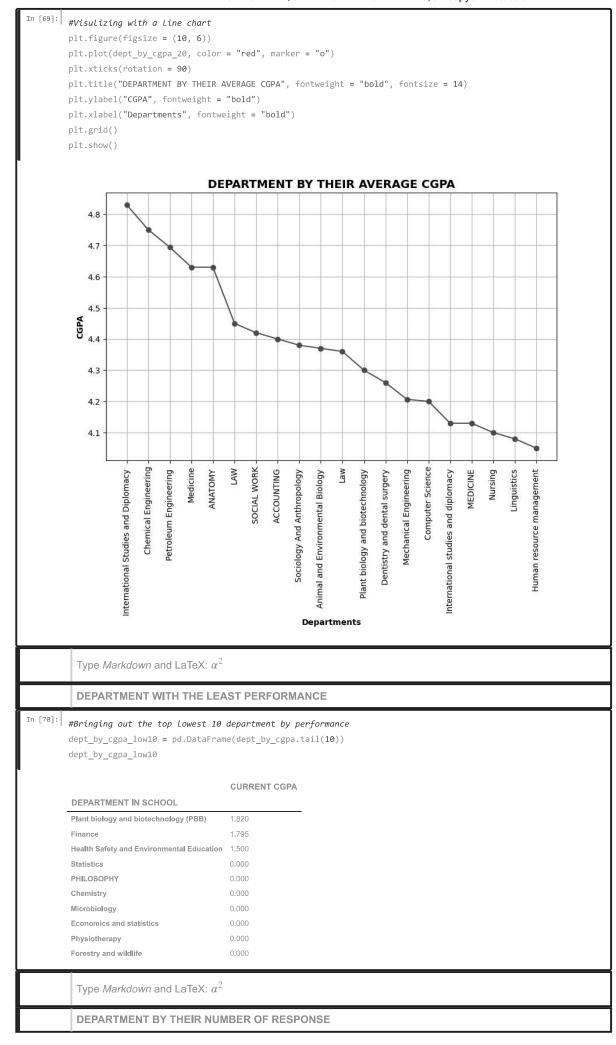
top_10_low_performance = (df.sort_values(by = "CURRENT CGPA", ascending = False).tail(10)).loc[:, ["NAME (SI top 10 low performance #Identifying the top 10 lowest student with their name, department in school and their cgpa and level NAME (SURNAME FIRST) DEPARTMENT IN SCHOOL CURRENT CGPA LEVEL 25 Asena Favour 0.0 200 110 Ovuede Oghenemaro Blessed Health Safety and Environmental Education 0.0 200 88 Nze Chinedu Statistics 100 89 Nze Chinedu Statistics 0.0 100 106 Osayamen Itohan precious PHILOSOPHY 0.0 100 18 Akinola Toluwani Daniel Optometry 0.0 100 63 ISENMILA JESUITIE MEDICINE 400 Accounting 57 Ikechi Love 400 36 CHUKWUKA CHIDINMA CHRISTABEL. LAW 300 38 Eboreime Aimalohi Statistics 200 Type *Markdown* and LaTeX: α^2 **IDENTIFYING MOST POPULAR ISSUES FACED BY THE STUDENTS** In [61]: df WHAT ARE THE ISSUES NAME YOU ARE DEPARTMENT DEPARTMENT(S) CURRENT (SURNAME FIRST) FACING AS REGARDING TIMESTAMP EMAIL ADDRESS LEVEL IN SCHOOL IN CHURCH CGPA YOUR ACADEMICS Abayomi Abisola 2025-04-25 olamideabisola840@gmail.com Radiography 300 MEDIA 3.21 God is good Olamide ABIODE FRANCESS OSHIOKUWE Ability to read TECHNICAL, WELFARE ANATOMY abiodefrancess002@gmail.com 400 4.63 and not fall 18:41:12.558 asleep \n 2025-04-25 17:56:10.169 BIBLE STUDY, WELFARE togbvubemsa@gmail.com Abizu Eseosa Medicine 400 5.00 Balance 2025-04-27 11:44:18.304 public administration TECHNICAL abumerepeter2@gmail.com Abumere Abusomwan 2025-04-28 vidaraymond84@gmail.com osagioduwa Chemistry 200 MEDIA. IT 0.00 None 07:00:46.963 Vida Presently, balancing other 2025-04-25 15:57:59.307 Agricultural Oghenefegoh MUSIC, PRAYER oghenefegohfavour@gmail.com Education courses with n Favour pro... Finding it has assimilate eas and unders... Udofia Patience 2025-04-27 udofiapatience791@gmail.com Philosophy 200 AESTHETICS 2.10 Forgetting wha read. Bulky Uhunmwangho 2025-04-25 122 osasereuhunmwangho@gmail.com Osasere Medicine 300 MEDIA TRE 4 26 academic coursew... 19:07:15.175 Victory 2025-04-26 CGPA is for m ukaoluchi091@gmail.com UKA OLUCHI ECONOMICS 400 BIBLE STUDY, TRF 3.16 123 08:02:02 619 200 level, Whe Well I'm in my finals, I need 2025-04-25 16:16:07.142 Usunobu Computer 124 usunobuwhinny55@gmail.com 400 MEDIA, PRAYER 4.00 Winner Science financial suppor... 122 rows × 9 columns In [62]: | df.columns Index(['TIMESTAMP', 'EMAIL ADDRESS', 'NAME (SURNAME FIRST)' 'DEPARTMENT IN SCHOOL', 'LEVEL', 'DEPARTMENT(S) IN CHURCH', 'WHAT ARE THE ISSUES YOU ARE FACING AS REGARDING YOUR ACADEMICS?', 'SUMMARY ISSUES'],

dtype='object')

```
RCF ACADEMIC PERFORMANCE ANALYSIS - Jupyter Notebook
In [63]: \mid popular_issues = df.groupby("SUMMARY ISSUES")["SUMMARY ISSUES"].count()
        popular issues
          SUMMARY ISSUES
          balance issues
          nill
          other issues
                         11
         reading issues
                         30
          time management
          Name: SUMMARY ISSUES, dtype: int64
In [64]:
        #Visualizing the statistics
        import matplotlib.pyplot as plt
In [65]: | plt.figure(figsize = (10, 6))
        plt.bar(popular_issues.index,popular_issues.values, color = "blue")
        plt.title("STUDENT ISSUES STATISTICS", fontweight = "bold", fontsize = 14)
        plt.xlabel("STUDENT ISSUES", fontsize = 12)
        plt.ylabel("FREQUENCY", fontsize = 12)
        plt.show()
                                            STUDENT ISSUES STATISTICS
             40
            30
          10
                                                          other issues
                     balance issues
                                            nill
                                                                           reading issues
                                                                                           time management
                                                      STUDENT ISSUES
          INSIGHT
          From the above analysis, it is observed that the most popular issues among the student is reading issues
          followed by balancing issues and then time management.
          The "other issues" statistics describes issues that are genuinely due to school factors like issues from lecturers
          and so on.
          It is also observed that majority of the student were not having any issue or challenge.
          Type Markdown and LaTeX: \alpha^2
```

DEPARTMENT WITH THE TOP PERFORMANCE

	TIMESTAMP	EMAIL ADDRE	ESS	NAME (SURNAME FIRST)	DEPARTMENT IN SCHOOL	LEVEL	DEPARTMENT(S) IN CHURCH	CURRENT CGPA	WHAT AI THE ISSI YOU ARI FACING, REGARD YOUR ACADEM
0	2025-04-25 18:03:55.937	olamideabisola8	40@gmail.com	Abayomi Abisola Olamide	Radiography	300	MEDIA	3.21	God is god
1	2025-04-25 18:41:12.558	abiodefrancess0	02@gmail.com	ABIODE FRANCESS OSHIOKUWE	ANATOMY	400	TECHNICAL, WELFARE	4.63	Ability to re and not fal asleep \n
2	2025-04-25 17:56:10.169	togbvubemsa@g	gmail.com	Abizu Eseosa	Medicine	400	BIBLE STUDY, WELFARE	5.00	Balance
3	2025-04-27 11:44:18.304	abumerepeter2@	Dgmail.com	Abumere	public administration	300	TECHNICAL	3.40	non
4	2025 - 04 - 28 07:00:46.963	vidaraymond84@	@gmail.com	Abusomwan osagioduwa Vida	Chemistry	200	MEDIA, IT	0.00	None
120	2025-04-25 15:57:59.307	oghenefegohfav	our@gmail.com	Tode Oghenefegoh Favour	Agricultural Education	400	MUSIC, PRAYER	3.80	Presently, balancing courses w pro
121	2025-04-27 16:11:29.167	udofiapatience79	91@gmail.com	Udofia Patience	Philosophy	200	AESTHETICS	2.10	Finding it I assimilate and under
122	2025-04-25 19:07:15.175	osasereuhunmw	angho@gmail.com	Uhunmwangho Osasere Victory	Medicine	300	MEDIA, TRF	4.26	Forgetting read. Bulk academic coursew
123	2025-04-26 08:02:02.619	ukaoluchi091@g	mail.com	UKA OLUCHI	ECONOMICS	400	BIBLE STUDY, TRF	3.16	The above CGPA is for 200 level, my 30
124	2025-04-25 16:16:07.142	usunobuwhinny5	55@gmail.com	Usunobu	Computer	400	MEDIA, PRAYER	4.00	Well I'm in finals, I ne financial
#Gro dept dept	ows × 9 columns ouping each _by_cgpa = _by_cgpa ARTMENT IN SCHO	department b df.groupby("	y their averag DEPARTMENT IN		Science URRENT CGPA"].	.mean().	sort_values(asc	ending = F	suppor
DEPA Inte Chem Petr ANAT SOCI Chem Micr Ecor Phys Fore Name	ows × 9 columns ouping each c_by_cgpa = c_by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineer TOMY IAL WORK mistry robiology nomics and stat slotherapy estry and wildl e: CURRENT CGPA inging out t. c_by_cgpa_10	department b. df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt he top 10 de, = pd.DataFr	y their average DEPARTMENT IN EY 4.830 4.750 4.694 4.630 4.420 0.000 0.000 0.000 0.000 0.000	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
DEPA Inte Chem Petr ANAT SOCI Chem Micr Ecor Phys Fore Name	ows × 9 columns ouping each c_by_cgpa = c_by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineeri TOMY IAL WORK mistry robiology nomics and stat stotherapy estry and wildl e: CURRENT CGPA	department b. df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt he top 10 de, = pd.DataFr	y their average DEPARTMENT IN EY 4.830 4.750 4.694 4.630 4.420 0.000 0.000 0.000 0.000 0.000 cype: float64 partment by pe ame(dept_by_ce	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
dept dept DEPA Inte Chem Petr ANAT SOCI Chem Micr Ecor Phys Fore Name dept dept	ows × 9 columns ouping each c_by_cgpa = c_by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineer TOMY IAL WORK mistry robiology nomics and stat slotherapy estry and wildl e: CURRENT CGPA inging out t. c_by_cgpa_10	department b df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt the top 10 de = pd.DataFr	y their average DEPARTMENT IN TY 4.830 4.750 4.694 4.630 4.420 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
dept dept DEPA Inte Chem Petr ANAT SOCI Chem Micr Ecor Phys Fore Name 2]: #Bri dept	ows × 9 columns ouping each by_cgpa =by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineer TOMY IAL WORK mistry robiology nomics and stat stotherapy estry and wildl e: CURRENT CGPA inging out toby_cgpa_10 by_cgpa_10	department b df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt the top 10 de = pd.DataFr	y their average DEPARTMENT IN Ly 4.830 4.750 4.694 4.630 4.420 6.000 6.000 6.000 6.000 6.000 cype: float64 CURRENT CGPA	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
dept dept DEPA Inter ANAT SOCI Chem Micr Ecor Phys Fore Name DEP. Interior	ows × 9 columns ouping each by_cgpa =by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineer TOMY IAL WORK mistry robiology nomics and stat stotherapy estry and wildl e: CURRENT CGPA inging out toby_cgpa_10 by_cgpa_10	department b. df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt he top 10 de = pd.DataFr	y their average DEPARTMENT IN Ly 4.830 4.750 4.694 4.630 4.420 6.000 6.000 6.000 6.000 6.000 cype: float64 CURRENT CGPA	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
dept dept DEPA Inter ANAT SOCI Chem Micr Ecor Phys Fore Name DEP. Inter Chem Chem	ows × 9 columns ouping each by_cgpa =by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineer TOMY IAL WORK mistry robiology nomics and stat siotherapy estry and wildl e: CURRENT CGPA Enging out toby_cgpa_10 E_by_cgpa_10 PARTMENT IN : mational Studies	department by df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt he top 10 de = pd.DataFr SCHOOL and Diplomacy g	y their average DEPARTMENT IN 2y 4.830 4.750 4.694 4.630 4.420 0.000 0.000 0.000 0.000 0.000 0.000 0.000 cype: float64 CURRENT CGPA 4.830	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
DEPAINTE DEPAINTE Chem Micr Ecor Phys Fore Name 2]: #Bri dept DEP Intern Chem Petro	ows × 9 columns ouping each by_cgpa =by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri TOMY IAL WORK mistry robiology nomics and stat siotherapy estry and wildl e: CURRENT CGPA Enging out toby_cgpa_10 E_by_cgpa_10 PARTMENT IN Section 10 or	department by df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt he top 10 de = pd.DataFr SCHOOL and Diplomacy g	y their average DEPARTMENT IN 2y 4.830 4.750 4.694 4.630 4.420 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 Cype: float64 CURRENT CGPA 4.830 4.750	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
DEPA Inter Chem Petro Chem Petro Chem Petro ANAT	ows × 9 columns ouping each c_by_cgpa = c_by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineer TOMY IAL WORK mistry robiology nomics and stat slotherapy estry and wildl e: CURRENT CGPA inging out t. c_by_cgpa_10 C_by_cgpa_10 PARTMENT IN: mational Studies mical Engineerin oleum Engineerin	department by df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt he top 10 de = pd.DataFr SCHOOL and Diplomacy g	y their average DEPARTMENT IN Ey 4.830 4.750 4.694 4.630 4.420 0.000 0.000 0.000 0.000 0.000 0.000 0.000 cype: float64 Partment by pe ame(dept_by_cg CURRENT CGPA 4.830 4.750 4.694	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
DEPA Inte Chem Micr Ecor Phys Name 3:3:4 BP1 DEP. Intern Chem Petro ANAI SOCI	ows × 9 columns ouping each by_cgpa =by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineer TOMY IAL WORK mistry robiology nomics and stat slotherapy estry and wildl e: CURRENT CGPA Enging out toby_cgpa_10 Capy_cgpa_10 PARTMENT IN: mational Studies mical Engineerin coleum Engineerin TOMY	department by df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt he top 10 de = pd.DataFr SCHOOL and Diplomacy g	y their average DEPARTMENT IN Ey 4.830 4.750 4.694 4.630 4.420 6.000 6.000 6.000 6.000 6.000 Eype: float64 CURRENT CGPA 4.830 4.750 4.694 4.630	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
DEPA Inter Chem Micr Ecor Phys Name 3:3:4 #Bri dept DEPA Inter Chen Petro ANAT SOCI ACCC	ows × 9 columns ouping each by_cgpa =by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineer TOMY IAL WORK Inging out toby_cgpa_10 Cappa_10 Cappa_	department by df.groupby(" OL ies and Diplomac ng ing istics ife , Length: 79, dt he top 10 de = pd.DataFr SCHOOL and Diplomacy g ng	y their average DEPARTMENT IN Ey 4.830 4.750 4.634 4.630 4.420 6.000 6.000 6.000 6.000 6.000 Eype: float64 CURRENT CGPA 4.830 4.750 4.630 4.420	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
dept dept DEPA Inter ANAT SOCI ### DEPA Inter Chem Adopt ### DEP Inter Chem Petro ANAT SOCI ACCO Sociol	ows × 9 columns ouping each by_cgpa =by_cgpa ARTMENT IN SCHO ernational Studi mical Engineer TOMY IAL WORK mistry robiology nomics and stat siotherapy estry and wildl e: CURRENT CGPA Inging out tby_cgpa_10 PARTMENT IN : mational Studies mical Engineerin pleum Engineerin pleum Engineerin TOMY IAL WORK OUNTING	department by df.groupby(" OL ies and Diplomacing ing istics ife , Length: 79, dt he top 10 de = pd.DataFr SCHOOL and Diplomacy g ng	y their average DEPARTMENT IN Ey 4.830 4.750 4.694 4.630 4.420 0.000 0.000 0.000 Eype: float64 CURRENT CGPA 4.830 4.750 4.694 4.630 4.420 4.400	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor
dept dept DEPA Inter ANAT SOCI ### DEPA Inter Chem Adopt ### DEP Inter Chem Petro ANAT SOCI ACCO Sociol	ows × 9 columns ouping each by_cgpa =by_cgpa ARTMENT IN SCHO ernational Stud mical Engineeri roleum Engineer TOMY IAL WORK OUNTING Ology And Anthr	department by df.groupby(" OL ies and Diplomacing ing istics ife , Length: 79, dt he top 10 de = pd.DataFr SCHOOL and Diplomacy g ng	y their average DEPARTMENT IN Y 4.830 4.750 4.694 4.630 4.420 9.000 9.0	ge cgpa SCHOOL")["Cl	URRENT CGPA"].	mean().		ending = F	suppor



```
In [71]: df.columns
            Index(['TIMESTAMP', 'EMAIL ADDRESS', 'NAME (SURNAME FIRST)'
                   'DEPARTMENT IN SCHOOL', 'LEVEL', 'DEPARTMENT(S) IN CHURCH',
                  'CURRENT CGPA'
                   'WHAT ARE THE ISSUES YOU ARE FACING AS REGARDING YOUR ACADEMICS?',
                  'SUMMARY ISSUES'],
                 dtype='object')
In [72]:
          dept_response = df.groupby("DEPARTMENT IN SCHOOL")["DEPARTMENT IN SCHOOL"].count().sort_values(ascending = I
          dept_response
           DEPARTMENT IN SCHOOL
            Medicine
            Pharmacy
           Biochemistry
           Accounting
           Computer Science
           International Studies and Diplomacy
           ANATOMY
           International studies and diplomacy
            public administration
           Name: DEPARTMENT IN SCHOOL, Length: 79, dtype: int64
In [74]:
          #top 40 department with the highest responce
          pd.DataFrame(dept_response.head(40))
                                                 DEPARTMENT IN SCHOOL
           DEPARTMENT IN SCHOOL
          Medicine
          Pharmacy
          Biochemistry
          Accounting
          Computer Science
           Nursing science
           MEDICINE
          Optometry
          Computer Engineering
           Nursing Science
           Health Safety and Environmental Education 2
           Microbiology
           Physiotherapy
           Forestry and wildlife
           Plant Biology and Biotechnology
           Medical biochemistry
           Mechanical Engineering
           Animal Science
           Medical Laboratory Science
           Medical Biochemistry
           Mechatronics Engineering
           NURSING SCIENCE
           Mechanical
           Mathematics
           ACCOUNTING
          PHILOSOPHY
           PHARMACY
           Petroleum Engineering
           Petroleum engineering
          Philosophy
          Plant biology and biotechnology
          Plant biology and biotechnology (PBB)
           Radiography
           SOCIAL WORK
           SOIL SCIENCE AND LAND MANAGEMENT
```

Type Markdown and LaTeX: α²

AVERAGE CGPA OF ALL STUDENTS

In [75]: df.columns

Index(['TIMESTAMP', 'EMAIL ADDRESS', 'NAME (SURNAME FIRST)', 'DEPARTMENT IN SCHOOL', 'LEVEL', 'DEPARTMENT(S) IN CHURCH', 'CURRENT CGPA', 'WHAT ARE THE ISSUES YOU ARE FACING AS REGARDING YOUR ACADEMICS?', 'SUMMARY ISSUES'], dtype='object')

In [76]: df["CURRENT CGPA"].mean()

3.1310409836065576

INSIGHT

From the information above, the overall average cgpa for all student is 3.131 which is below the standard RCF CGPA

Type *Markdown* and LaTeX: α^2

Summary

This analysis of RCF academic performance was aimed at uncovering key insights into students' CGPA distribution, departmental performance, and common academic challenges. The dataset underwent structural and descriptive statistical analysis, including checks for missing values and duplicates. The issues column with 11 missing entries was corrected using Excel and included in the analysis.

Key findings include:

- Identification of the top 10 high-performing and low-performing students across departments.
- Average CGPA computation for each department as well as the entire student body.
- Ranking of departments based on performance and number of respondents.
- Extraction of the most common academic issues faced by students.

Conclusion

The academic performance analysis revealed crucial areas of strength and concern among RCF students. While some departments showed consistent excellence, others reflected the need for academic support. The widespread issues faced by students — such as course load, time management, and comprehension challenges — point toward actionable interventions like mentorship, academic counseling, and tailored tutorials.

Overall, this analysis serves as a strategic tool to make data-driven decisions aimed at enhancing academic success across all departments.