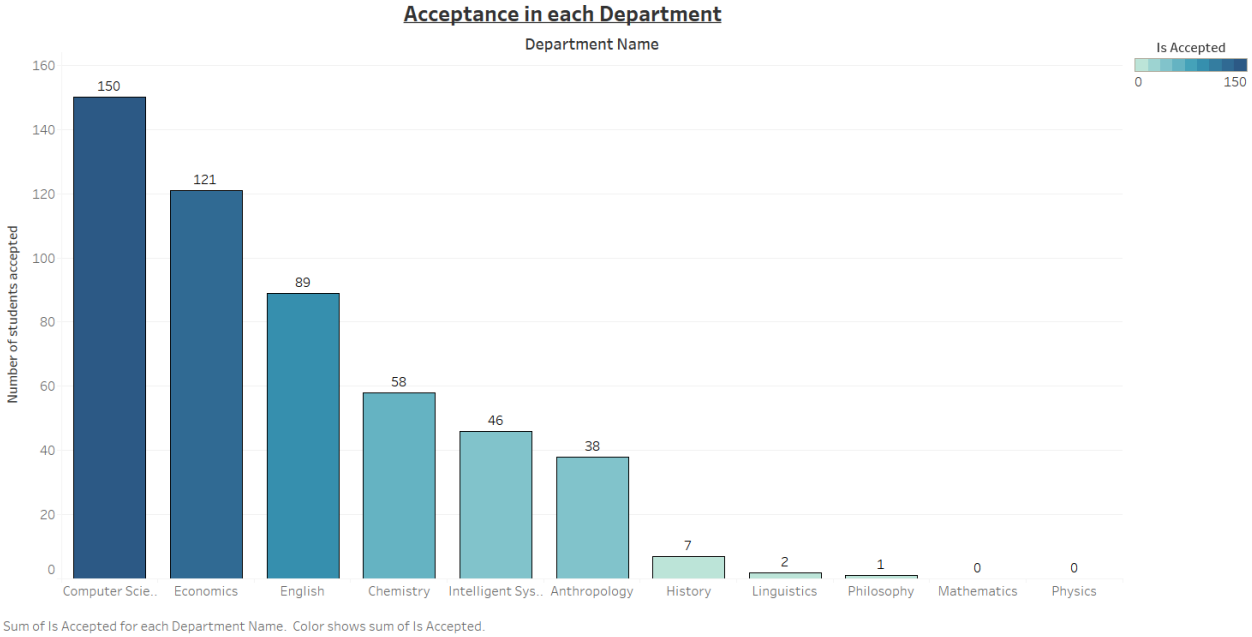
Reporting and Analytics

We deployed Tableau (BI application) on top of our star schema. Below is few analysis on the schema:
Find the Tableau workbook file **Tableau analytics workbook. twbx** in the documentation folder.

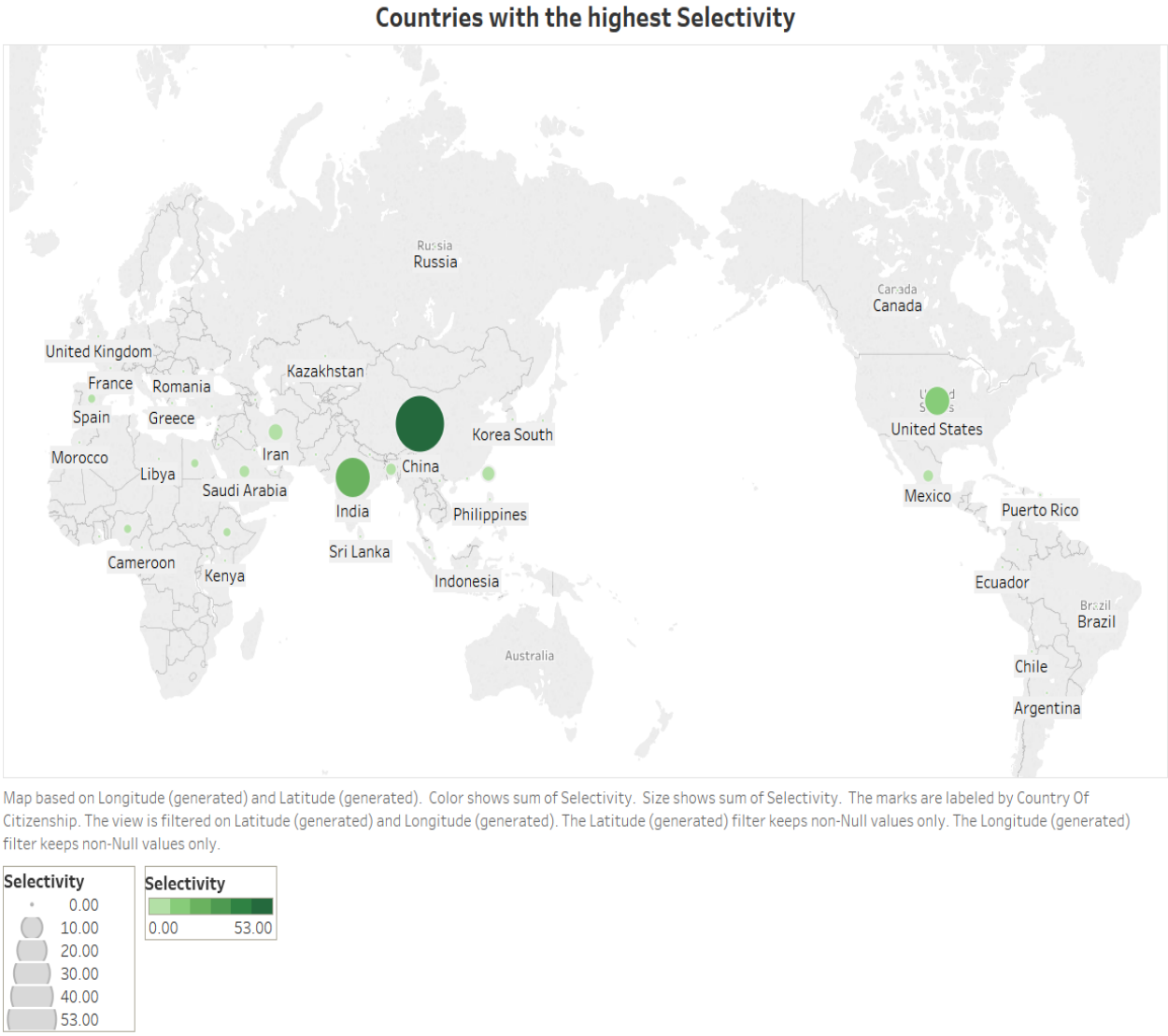
1.Total number of applicants accepted in each Department.



Reference Tableau file: Departmentwise Acceptance.twd

The above analysis shows the number of applicants accepted in each department. From the above chart one can infer that Computer science department has accepted the most number of students followed by Economics and English departments. We can also say that Computer science has the most number of seats available and is the most preferred among the applicants as well. Here Mathematics and Physics has the lowest number of acceptance.

2.Countries which has the highest Selectivity of Applicants.

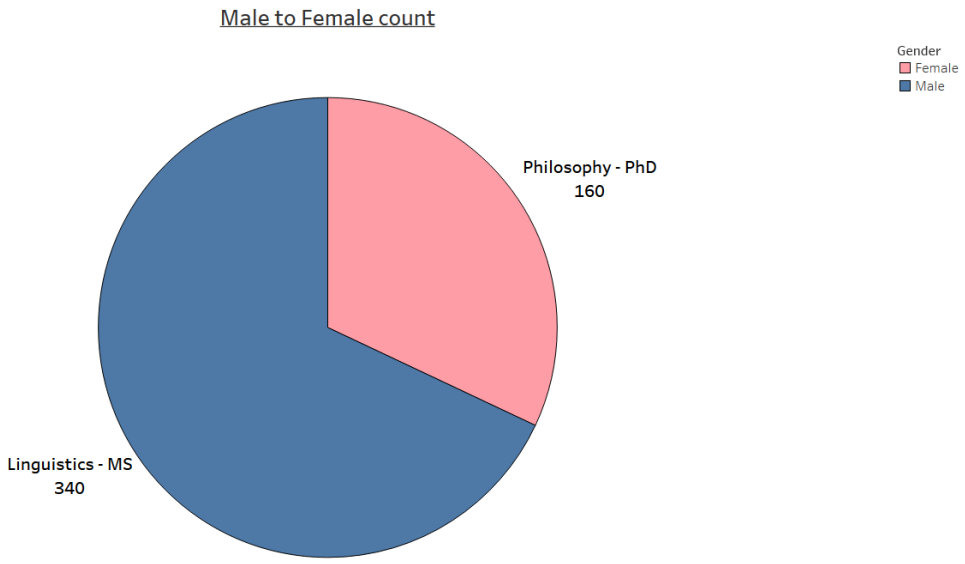


Map based on Longitude (generated) and Latitude (generated). Color shows sum of Selectivity. Size shows sum of Selectivity. The marks are labeled by Country Of Citizenship. The view is filtered on Latitude (generated) and Longitude (generated). The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only.

Reference Tableau file: Countries with Highest selectivity.twd

The above analysis shows a geographical representation of the countries with the highest selectivity. Here the map is represented by a size dot which plots the countries per the selectivity of applicants from that country. We can see that the applicants from China has have the upper hand followed by India and United States. We can infer from this data that the admissions got the highest number of applications from China, India and United States. Apart from these countries there are many other countries with less number of selections.

3.Male to Female count of all the admitted students with the departments having the highest count for both genders.

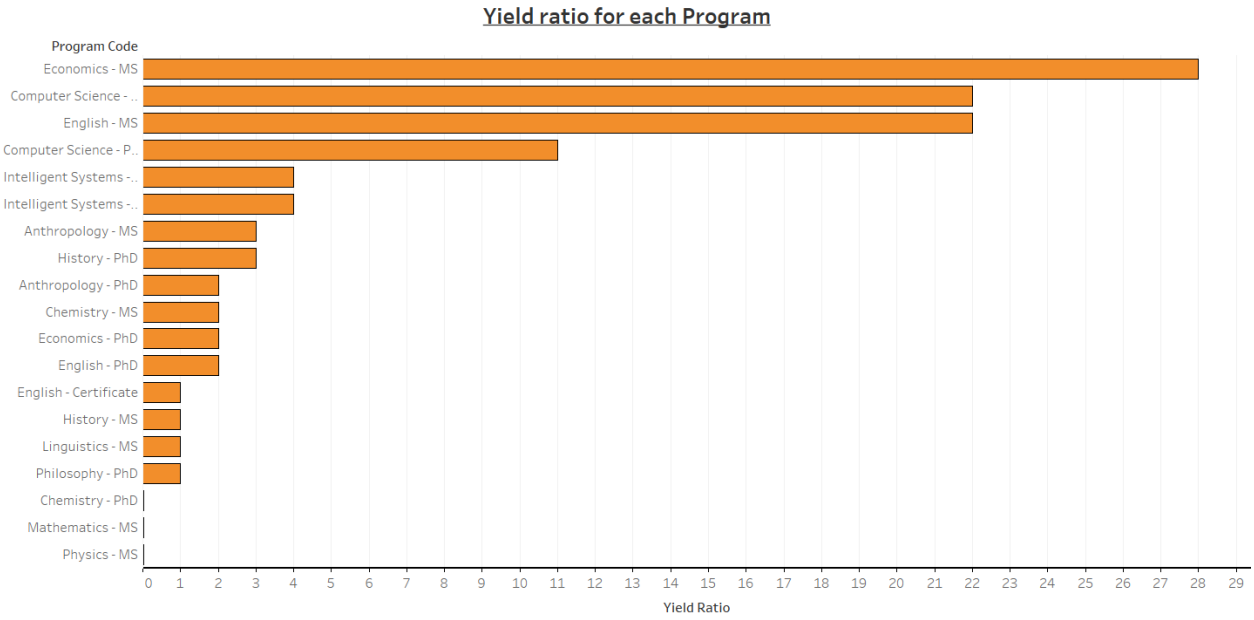


Maximum of Program Code and count of Is Accepted. Color shows details about Gender. Size shows count of Is Accepted. The marks are labeled by maximum of Program Code and count of Is Accepted. The data is filtered on Is Accepted, which keeps 1. The view is filtered on Gender, which keeps Female and Male.

Reference Tableau file: Male to Female count.twd

The above Pie chart shows the Male to Female count accepted. We can see that more male applicants are accepted with a count of 340 and a female count of 160. This brings the overall Male to Female ratio to 17:8. Also, the Male population preferred Linguistics with its department having the highest male count and the philosophy department being preferred more by the female population.

4.Yeild Ratio for each program sorted accordingly.



Sum of Yield Ratio for each Program Code.

Reference Tableau file: Yield Ratio for each Program.twd

Sum of Yield Ratio broken down by Program Code. Color shows sum of Yield Ratio. The marks are labeled by sum of Yield Ratio.

Reference Tableau file: Yield Ratio for each Program.twd

The above two charts gives us a picture on the Yield Ratio of all the Programs. This data can be related to the analytics on Selectivity of all departments, which tells us that the selectivity factor has an obvious influence in the yield ratio. But here the Economics program has the highest yield ratio with a score 28 closely followed by Computer Science and English programs both having a ratio of 22. Again, Mathematics and Physics have the least score with no yield ratio at all. One can infer from this that both the departments and their programs need to make changes to attract more students.

5.Top 10 applicants having the highest Email Response Rate.

Top 10 Applicants with highest Email Response Rate

Applican..	Applicant First Name	Applicant Last Na..	Country Of Citizenship	Admission Decision	Department N..	Num Email By App	Num Email By Sch	Email Response Ra..	Is Accepted
1394	Anna	Diaz	China	DENIED	Anthropology	1	18	18.000	
0661	Erick	Suri	United States	APPLIED	Anthropology	1	17	17.000	
1552	Fernando	Wilson	Iran	APPLIED	Anthropology	1	15	15.000	
1561	Marco	Vance	India	APPLIED	Anthropology	1	15	15.000	
0609	Jarrod	Chandra	United States	APPLIED	Anthropology	1	14	14.000	
0730	Amanda	Price	China	DENIED	Anthropology	1	14	14.000	
1098	Mayra	Srini	China	APPLIED	Anthropology	1	14	14.000	
0408	Max	Vazquez	India	NO DATA	Anthropology	2	17	13.500	
0758	Amanda	Butler	United States	ADMITTED	Anthropology	2	17	13.500	
1276	Shawna	Lal	China	DENIED	Anthropology	2	17	13.500	

Is Admitted: 0

Sum of Num Email By App, sum of Num Email By Sch, sum of Email Response Rate and sum of Is Accepted for each Department Name broken down by Is Admitted vs. Applicant Client Id, Applicant First Name, Applicant Last Name, Country Of Citizenship and Admission Decision. The view is filtered on sum of Email Response Rate and Applicant Client Id. The sum of Email Response Rate filter keeps non-Null values only. The Applicant Client Id filter keeps 10 members.

Reference Tableau file: Top 10 applicants with Highest Email Response rate.twd

The above analysis gives us the top 10 applicants with the highest Email Response Rate. We can see that all the 10 applicants are from the Anthropology department and hence this department scores the highest Email Response Rate. Most of the Admission Decision of the applicants from above are either still in **Applied** status or in **Denied** status and only one among them is Admitted, which can infer that the admissions could have been sending out regular update mails to students in these decision statuses which could have led to a higher Email Response Rate.