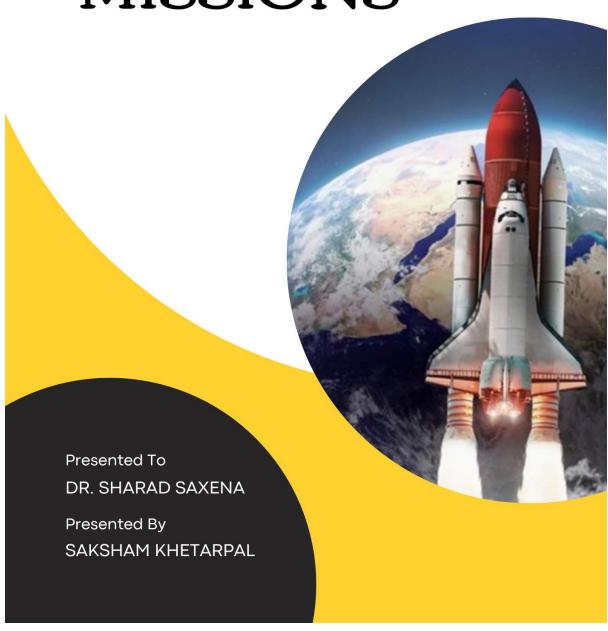
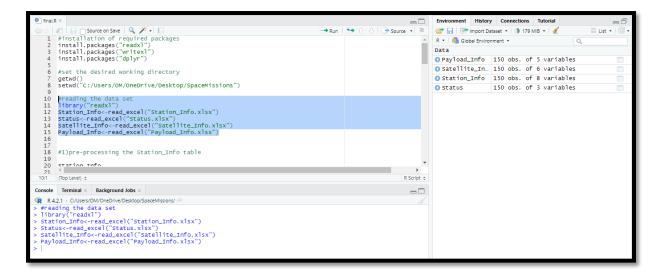
SPACE MISSIONS

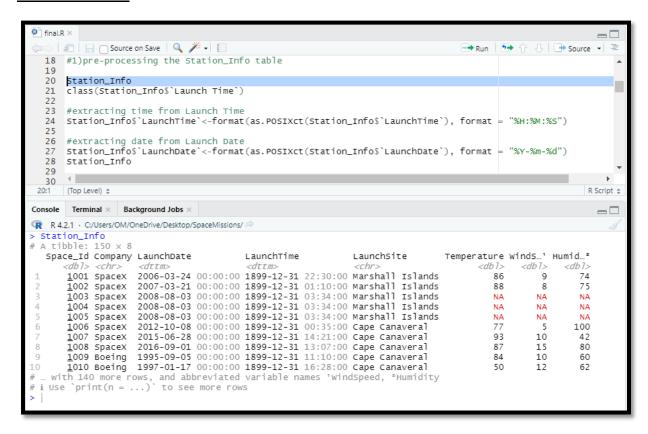


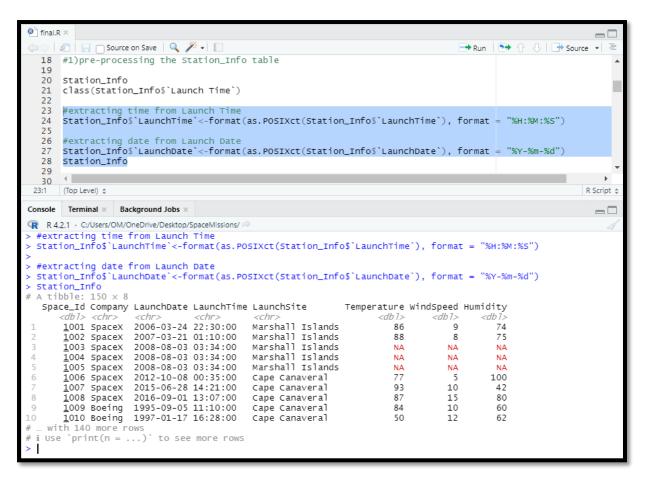
Problem Statements:-

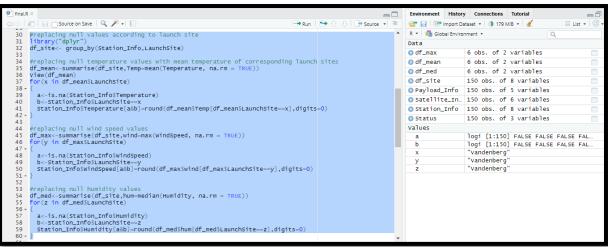
- 1) What are the average temperature details of the launch sites?
- 2) What are the average Wind Speeds details of the launch sites?
- 3) What are the average Humidity details of the launch sites?
- 4) What are the different varieties of launch vehicles used by different companies?
- 5) What is the Mission Status of the companies?
- 6) Track Records of the Launch Sites.

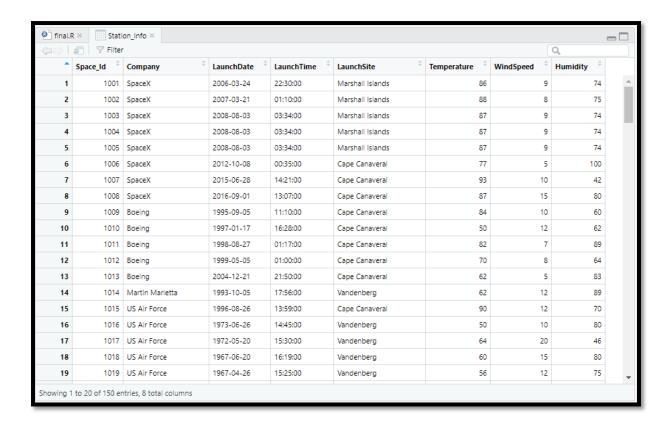


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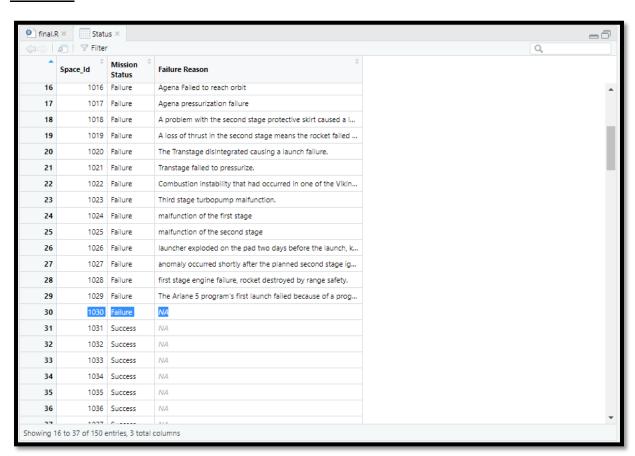


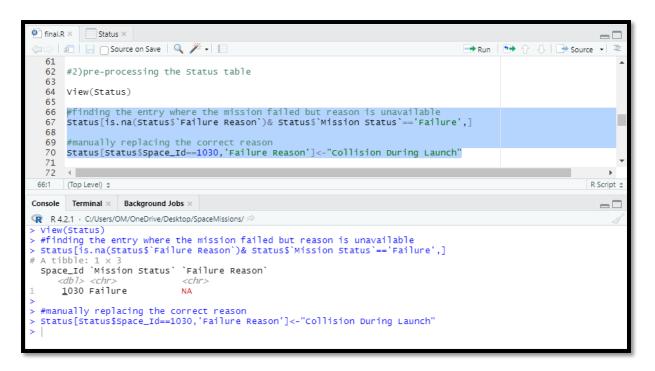


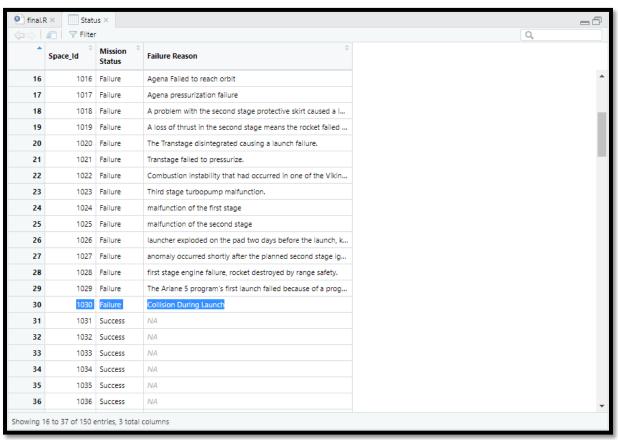




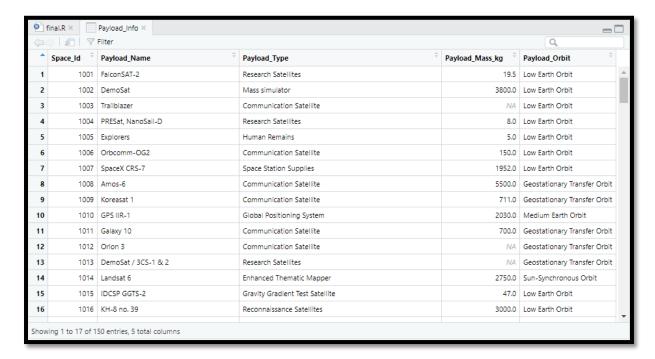
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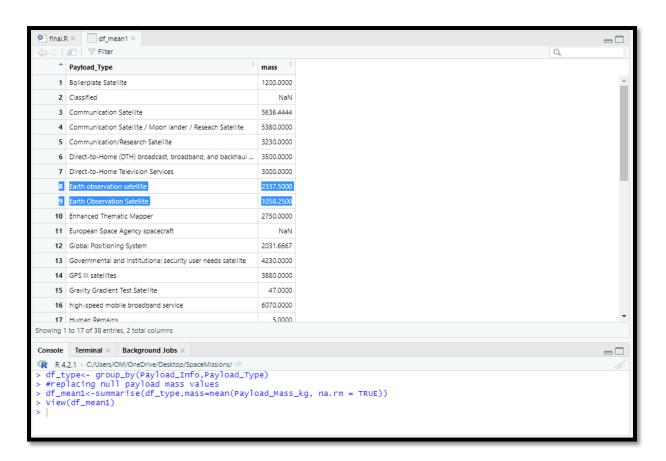




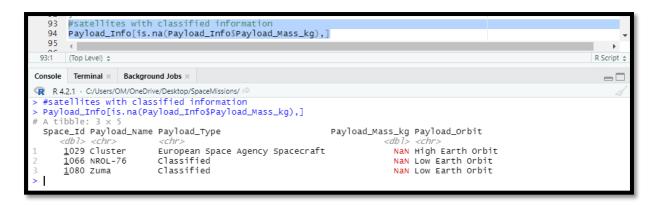
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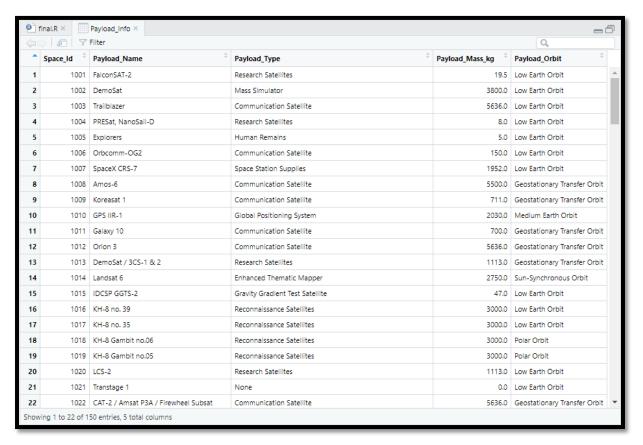




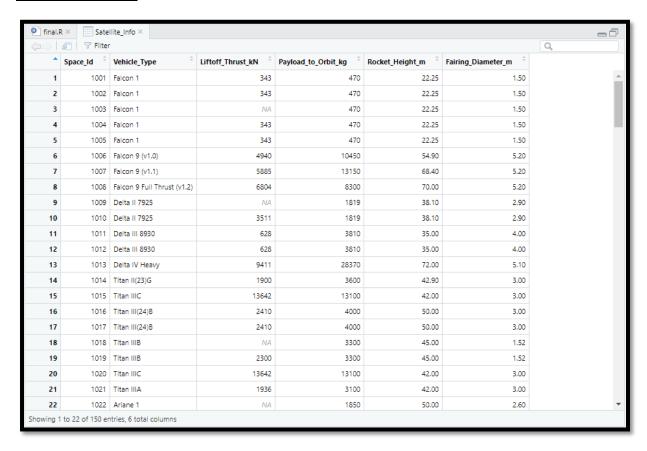


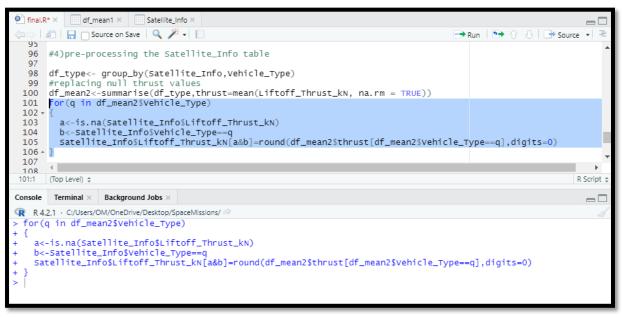
```
final.R × Payload_Info ×
      Run | 🕩 🕆 🖯 | 🕩 Source 🗸 🗏
        library(stringr)
   82 Payload_Info$Payload_Type<-str_to_title(Payload_Info$Payload_Type)
   83
   84
        df_type<- group_by(Payload_Info,Payload_Type)</pre>
        #replacing null payload mass values
df_mean1<-summarise(df_type,mass=mean(Payload_Mass_kg, na.rm = TRUE))</pre>
   85
   87
         for(p in df_mean1$Payload_Type)
   88 -
   89
           a<-is.na(Payload_Info$Payload_Mass_kg)
         b<-Payload_Info$Payload_Type==p
Payload_Info$Payload_Mass_kg[a&b]=round(df_mean1$mass[df_mean1$payload_Type==p],digits=0)
   90
   92 4 3
   93 #satellites with classified information
   94 Payload_Info[is.na(Payload_Info$Payload_Mass_kg),]
   95
 84:1
       (Top Level) ±
                                                                                                                                               R Script ±
Console Terminal × Background Jobs ×
                                                                                                                                                  \neg
R 4,2,1 · C:/Users/OM/OneDrive/Desktop/SpaceMissions/
 Payload_Info$Payload_Type<-str_to_title(Payload_Info$Payload_Type)
df_type<- group_by(Payload_Info,Payload_Type)
#replacing null payload mass values
df_mean1<-summarise(df_type,mass=mean(Payload_Mass_kg, na.rm = TRUE))
for(p in df_mean1$Payload_Type)</pre>
     a<-is.na(Payload_Info$Payload_Mass_kg)
    b<-Payload_Info$Payload_Type==p
Payload_Info$Payload_Mass_kg[a&b]=round(df_mean1$mass[df_mean1$Payload_Type==p],digits=0)
```





Satellite Info:

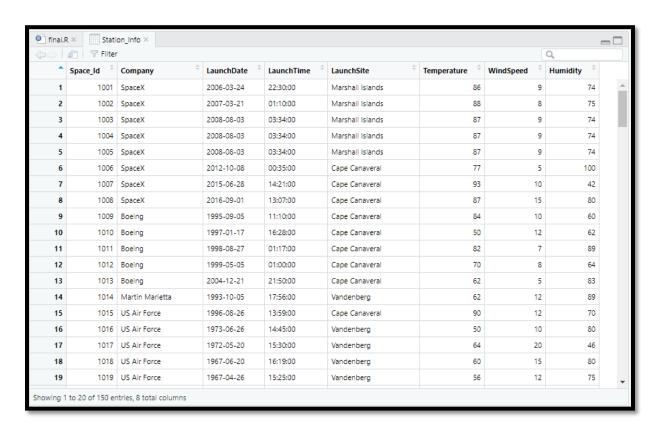


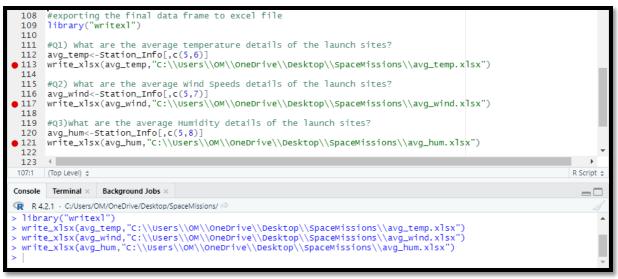


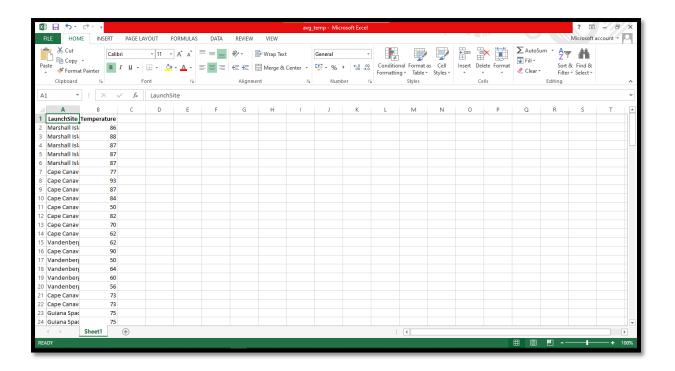
□ S Filter							
•	Space_ld [‡]	Vehicle_Type	Liftoff_Thrust_kN [‡]	Payload_to_Orbit_kg [‡]	Rocket_Height_m	Fairing_Diameter_m	
1	1001	Falcon 1	343	470	22.25	1.50	
2	1002	Falcon 1	343	470	22.25	1.50	
3	1003	Falcon 1	343	470	22,25	1.50	
4	1004	Falcon 1	343	470	22.25	1.50	
5	1005	Falcon 1	343	470	22.25	1.50	
6	1006	Falcon 9 (v1.0)	4940	10450	54.90	5.20	
7	1007	Falcon 9 (v1.1)	5885	13150	68.40	5.20	
8	1008	Falcon 9 Full Thrust (v1.2)	6804	8300	70.00	5.20	
9	1009	Delta II 7925	3511	1819	38.10	2.90	
10	1010	Delta II 7925	3511	1819	38.10	2.90	
11	1011	Delta III 8930	628	3810	35.00	4.00	
12	1012	Delta III 8930	628	3810	35.00	4.00	
13	1013	Delta IV Heavy	9411	28370	72.00	5.10	
14	1014	Titan II(23)G	1900	3600	42.90	3.00	
15	1015	Titan IIIC	13642	13100	42.00	3.00	
16	1016	Titan III(24)B	2410	4000	50.00	3.00	
17	1017	Titan III(24)B	2410	4000	50.00	3.00	
18	1018	Titan IIIB	2300	3300	45.00	1.52	
19	1019	Titan IIIB	2300	3300	45.00	1.52	
20	1020	Titan IIIC	13642	13100	42.00	3.00	
21	1021	Titan IIIA	1936	3100	42.00	3.00	
22	1022	Ariane 1	2772	1850	50.00	2.60	

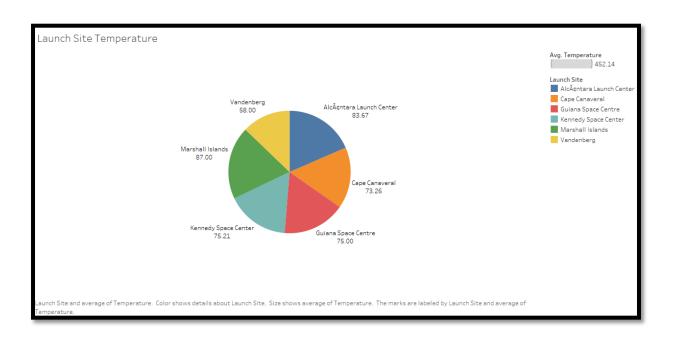
Final Tables:

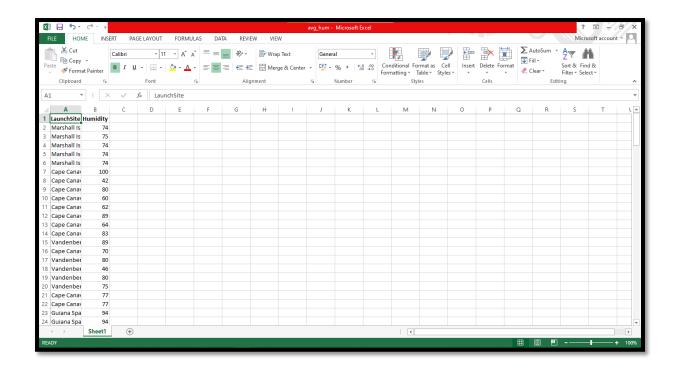
- 1) What are the average temperature details of the launch sites?
- 2) What are the average Wind Speeds details of the launch sites?
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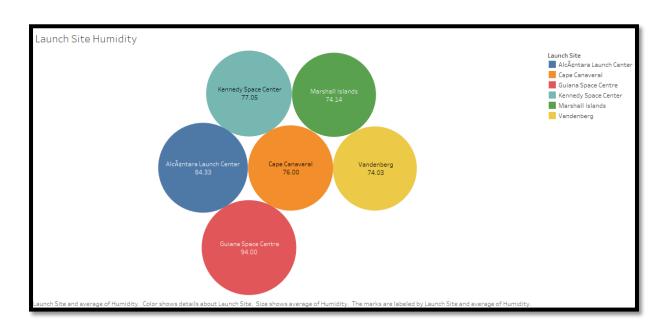


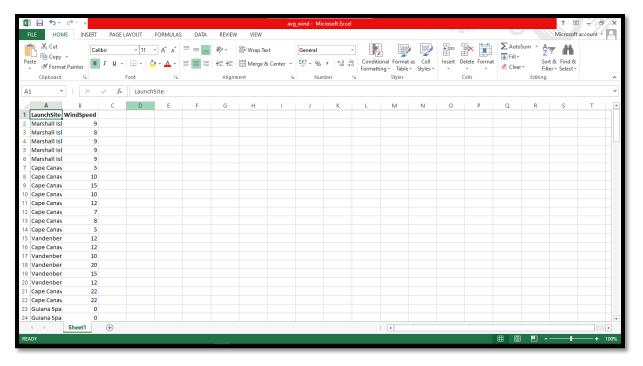


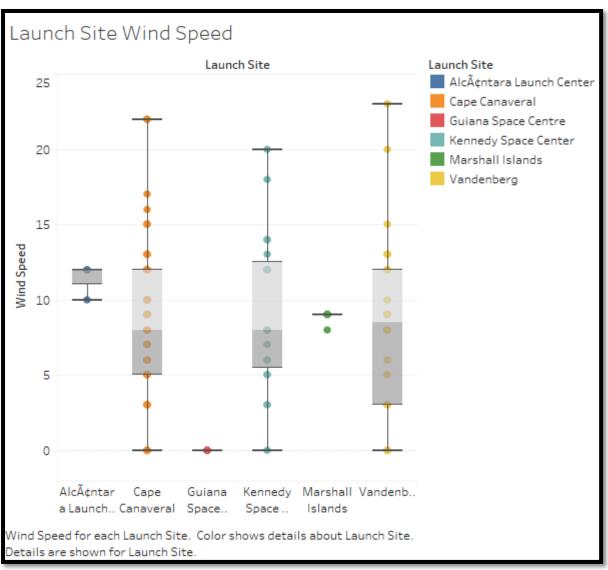




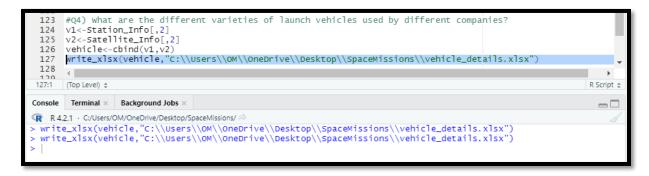


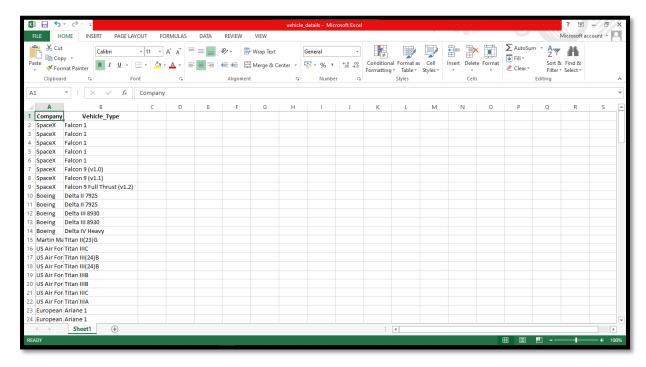


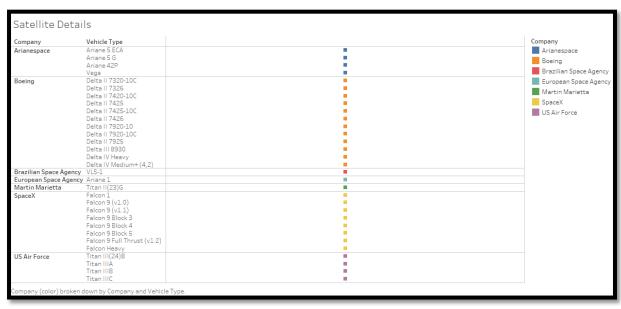




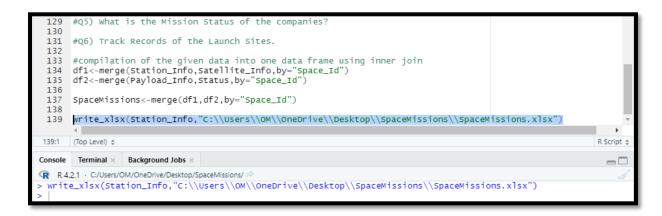
4) What are the different varieties of launch vehicles used by different companies?

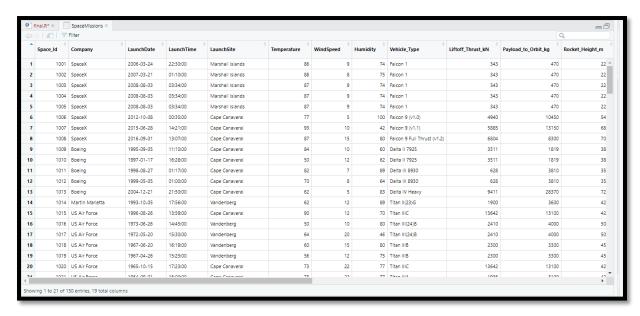


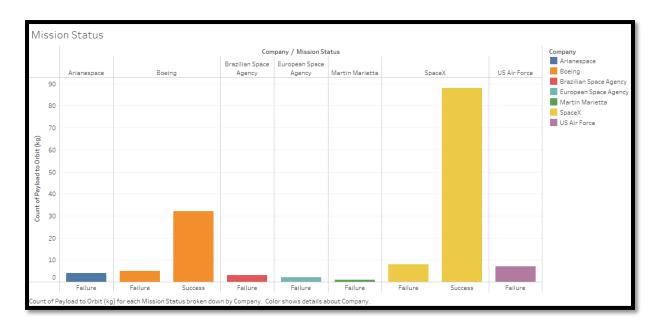


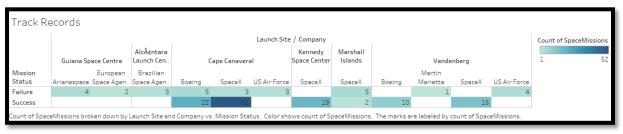


- 5) What is the Mission Status of the companies?
- 6) Track Records of the Launch Sites.

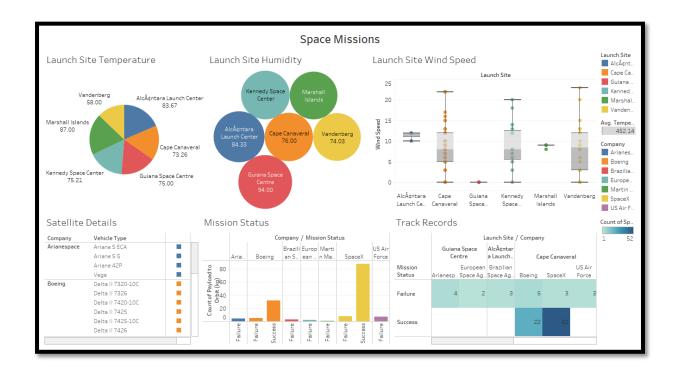








Dashboard:



Fetching Details:

