

EDA with SQL results

The names of the unique launch sites in the space mission

```
Out[17]: launch_site
         CCAFS LC-40
         CCAFS SLC-40
         KSC LC-39A
         VAFB SLC-4E
```

5 records where launch sites begin with the string 'CCA'

DATE	time__utc_	booster_version	launch_site	payload	payload_mass__kg_	orbit	customer	mission_outcome	landing__outcome
2010-04-06	18:45:00	F9 v1.0 B0003	CCAFS LC-40	Dragon Spacecraft Qualification Unit	0	LEO	SpaceX	Success	Failure (parachute)
2010-08-12	15:43:00	F9 v1.0 B0004	CCAFS LC-40	Dragon demo flight C1, two CubeSats, barrel of Brouere cheese	0	LEO (ISS)	NASA (COTS) NRO	Success	Failure (parachute)
2012-08-10	00:35:00	F9 v1.0 B0006	CCAFS LC-40	SpaceX CRS-1	500	LEO (ISS)	NASA (CRS)	Success	No attempt
2013-01-03	15:10:00	F9 v1.0 B0007	CCAFS LC-40	SpaceX CRS-2	677	LEO (ISS)	NASA (CRS)	Success	No attempt
2013-03-12	22:41:00	F9 v1.1	CCAFS LC-40	SES-8	3170	GTO	SES	Success	No attempt

EDA with SQL results

The total payload mass carried by boosters launched by NASA (CRS)

Out[20]:

1

22007

The date when the first successful landing outcome in the ground pad was achieved.

Out[22]:

1

2017-01-05

The names of the boosters which have success in drone ships and have payload mass greater than 4000 but less than 6000

Out[23]:

booster_version
F9 FT B1022
F9 FT B1031.2

EDA with SQL results

The total number of successful and failed mission outcomes

Out[24]:

mission_outcome	2
Success	44
Success (payload status unclear)	1

The names of the booster_versions which have carried the maximum payload mass

Out[25]:

booster_version	payload_mass__kg_
F9 B5 B1048.4	15600
F9 B5 B1049.4	15600
F9 B5 B1049.5	15600
F9 B5 B1060.2	15600
F9 B5 B1058.3	15600

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The failed landing_outcomes in drone ship, their booster versions, and launch site names for in year 2015

```
Out[26]: booster_version launch_site
        F9 v1.1 B1012 CCAFS LC-40
```

Rank the count of landing outcomes (such as Failure (drone ship) or Success (ground pad)) between the date 2010-06-04 and 2017-03-20, in descending order

```
Out[27]: 1 landing__outcome
        7 No attempt
        2 Failure (drone ship)
        2 Success (drone ship)
        2 Success (ground pad)
        1 Controlled (ocean)
        1 Failure (parachute)
```