

```
In [1]: !pip install sqlalchemy==1.3.9
!pip install ibm_db_sa
!pip install ipython-sql
```

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Requirement already satisfied: sqlalchemy==1.3.9 in c:\users\hp\anaconda3\lib\site-packages (1.3.9)
Requirement already satisfied: ibm_db_sa in c:\users\hp\anaconda3\lib\site-packages (0.3.7)
Requirement already satisfied: ibm-db>=2.0.0 in c:\users\hp\anaconda3\lib\site-packages (from ibm_db_sa) (3.1.1)
Requirement already satisfied: sqlalchemy>=0.7.3 in c:\users\hp\anaconda3\lib\site-packages (from ibm_db_sa) (1.3.9)
Requirement already satisfied: ipython-sql in c:\users\hp\anaconda3\lib\site-packages (0.4.0)
Requirement already satisfied: sqlparse in c:\users\hp\anaconda3\lib\site-packages (from ipython-sql) (0.4.2)
Requirement already satisfied: ipython>=1.0 in c:\users\hp\anaconda3\lib\site-packages (from ipython-sql) (7.29.0)
Requirement already satisfied: ipython-genutils>=0.1.0 in c:\users\hp\anaconda3\lib\site-packages (from ipython-sql) (0.2.0)
Requirement already satisfied: sqlalchemy>=0.6.7 in c:\users\hp\anaconda3\lib\site-packages (from ipython-sql) (1.3.9)
Requirement already satisfied: prettytable<1 in c:\users\hp\anaconda3\lib\site-packages (from ipython-sql) (0.7.2)
Requirement already satisfied: six in c:\users\hp\anaconda3\lib\site-packages (from ipython-sql) (1.16.0)
Requirement already satisfied: traitlets>=4.2 in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (5.1.0)
Requirement already satisfied: pickleshare in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (0.7.5)
Requirement already satisfied: pygments in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (2.10.0)
Requirement already satisfied: matplotlib-inline in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (0.1.2)
Requirement already satisfied: prompt-toolkit!=3.0.0,!<3.0.1,<3.1.0,>=2.0.0 in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (3.0.20)
Requirement already satisfied: setuptools>=18.5 in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (58.0.4)
Requirement already satisfied: decorator in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (5.1.0)
Requirement already satisfied: jedi>=0.16 in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (0.18.0)
Requirement already satisfied: backcall in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (0.2.0)
Requirement already satisfied: colorama in c:\users\hp\anaconda3\lib\site-packages (from ipython>=1.0->ipython-sql) (0.4.4)
Requirement already satisfied: parso<0.9.0,>=0.8.0 in c:\users\hp\anaconda3\lib\site-packages (from jedi>=0.16->ipython>=1.0->ipython-sql) (0.8.2)
Requirement already satisfied: wcwidth in c:\users\hp\anaconda3\lib\site-packages (from prompt-toolkit!=3.0.0,!<3.0.1,<3.1.0,>=2.0.0->ipython>=1.0->ipython-sql) (0.2.5)
```

```
In [2]: %load_ext sql
```

In [3]: 483:hsTo4D0NYeATFzmg@0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kqb1od8lcg.da

```
(ibm_db_dbi.InterfaceError) ibm_db_dbi::InterfaceError: connect expects a not N
one dsn value
(Background on this error at: http://sqlalche.me/e/rvf5) (http://sqlalche.me/e/rvf5)
Connection info needed in SQLAlchemy format, example:
    postgresql://username:password@hostname/dbname
or an existing connection: dict_keys([])
```

In [4]: %sql ibm_db_sa:// pck62483:hsTo4D0NYeATFzmg@0c77d6f2-5da9-48a9-81f8-86b520b87518.

```
(ibm_db_dbi.InterfaceError) ibm_db_dbi::InterfaceError: connect expects a not N
one dsn value
(Background on this error at: http://sqlalche.me/e/rvf5) (http://sqlalche.me/e/rvf5)
Connection info needed in SQLAlchemy format, example:
    postgresql://username:password@hostname/dbname
or an existing connection: dict_keys([])
```

In [5]: %sql select distinct(LAUNCH_SITE) from SPACEXTBL

```
Environment variable $DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
    postgresql://username:password@hostname/dbname
or an existing connection: dict_keys([])
```

In [6]: %sql select * from SPACEXTBL where LAUNCH_SITE like 'CCA%' limit 5

```
Environment variable $DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
    postgresql://username:password@hostname/dbname
or an existing connection: dict_keys([])
```

In [7]: %sql select sum(PAYLOAD_MASS_KG_) from SPACEXTBL where CUSTOMER = 'NASA (CRS)'

```
Environment variable $DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
    postgresql://username:password@hostname/dbname
or an existing connection: dict_keys([])
```

In [8]: %sql select avg(PAYLOAD_MASS_KG_) from SPACEXTBL where BOOSTER_VERSION = 'F9 v1.

```
Environment variable $DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
    postgresql://username:password@hostname/dbname
or an existing connection: dict_keys([])
```

In [9]: %sql select min(DATE) from SPACEXTBL where Landing__Outcome = 'Success (ground pa

Environment variable \$DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
 postgresql://username:password@hostname/dbname
 or an existing connection: dict_keys([])

In [10]: _VERSION from SPACEXTBL where Landing__Outcome = 'Success (drone ship)' and PAYLOA

Environment variable \$DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
 postgresql://username:password@hostname/dbname
 or an existing connection: dict_keys([])

In [11]: %sql select count(MISSION_OUTCOME) from SPACEXTBL where MISSION_OUTCOME = 'Succes

Environment variable \$DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
 postgresql://username:password@hostname/dbname
 or an existing connection: dict_keys([])

In [12]: %sql select BOOSTER_VERSION from SPACEXTBL where PAYLOAD_MASS__KG_ = (select max(

Environment variable \$DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
 postgresql://username:password@hostname/dbname
 or an existing connection: dict_keys([])

In [13]: %sql SELECT EXTRACT(MONTH, select min(DATE) from SPACEXTBL where Landing__Outcome

Environment variable \$DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
 postgresql://username:password@hostname/dbname
 or an existing connection: dict_keys([])

In [14]: select * from SPACEXTBL where Landing__Outcome like 'Success%' and (DATE between '2

Environment variable \$DATABASE_URL not set, and no connect string given.
Connection info needed in SQLAlchemy format, example:
 postgresql://username:password@hostname/dbname
 or an existing connection: dict_keys([])