Amazon Redshift ✕

Redshift serverless **New**

Provisioned clusters dashboard

▶ Clusters

Query editor

Query editor v2 ↗

Queries and loads

Datashares

▶ Configurations

After clicking the Query editor this window will open in which can see our cluster. For this case **etl** is our cluster which we have created.

After our cluster is created we have to click on the Query editor in the side bar. There are two Query editors in the side bar we can choose anyone of them I had choosed the Query editor v2.

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aws   ☷ Services   🔍 Search

Redshift query editor v2

Editor

⊕ Create ▾   ⬆ Load data   ≪

🔍 Filter resources   ⟳

Queries

> 🗄 etl   ⓘ ⋮

Notebooks

Charts

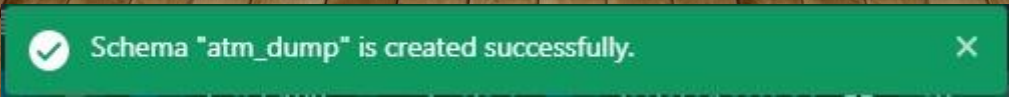History
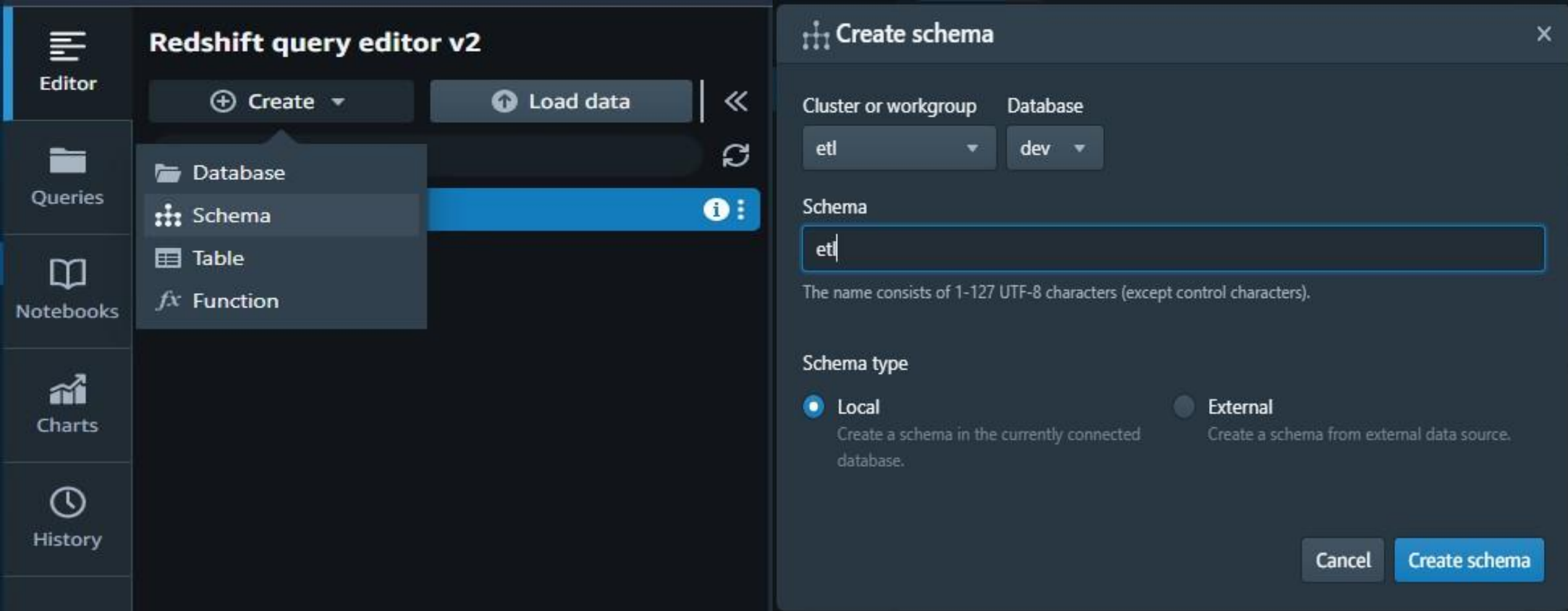
At first we have to create schema in our database for that we click on create an select schema. After that create schema dialog box will be open in which we will give the name of our schema. Here we are choosing schema type as local. At last click on create schema. Then this successful message pop up.

```sql
Create table atm_dump.atm_location
(

    location varchar(70),
    streetname varchar(150),
    streetnumber int,
    zipcode int,
    latitude decimal(10,5),
    longitude decimal(10,5),
    location_id int not null DISTKEY SORTKEY,
    Primary Key (location_id)

);
```

```sql
create table atm_dump.atm_location
1
2    (
3        location varchar(70),
4        streetname varchar(150),
5        streetnumber int,
6        zipcode int,
7        latitude decimal(10,5),
8        longitude decimal(10,5),
9        location_id int not null DISTKEY SORTKEY,
10       Primary Key (location_id)
11   )
```

⊞ Result 1

Result set query.

```sql
create table atm_dump.atm_location
(
    location varchar(70),
    streetname varchar(150),
    streetnumber int,
    zipcode int,
    latitude decimal(10,5),
    longitude decimal(10,5),
    location_id int not null DISTKEY SORTKEY,
    Primary Key (location_id)
)
```

```sql
1    create table atm_dump.atm_date
2    (
3        date_id int not null DISTKEY SORTKEY,
4        full_datetime timestamp,
5        year int,
6        month varchar(15),
7        day int,
8        hour int,
9        weekday varchar(15),
10       Primary Key(date_id)
11
12   );
```

⊞ Result 1

```sql
create table atm_dump.atm_date
(
    date_id int not null DISTKEY SORTKEY,
    full_datetime timestamp,
    year int,
    month varchar(15),
    day int,
    hour int,
    weekday varchar(15),
    Primary Key(date_id)
```

```sql
create table atm_dump.atm_date
(

    date_id int not null DISTKEY SORTKEY,
    full_datetime timestamp,
    year int,
    month varchar(15),
    day int,
    hour int,
    weekday varchar(15),
    Primary Key(date_id)
);
```

```sql
create table atm_dump.atm_detail
(
    atmid int not null DISTKEY SORTKEY,
    atm_number VARCHAR(30),
    atm_manfacturer Varchar(75),
    atm_location_id int,
    PRIMARY KEY (atmid),
    FOREIGN KEY (atm_location_id) references atm_dump.atm_location(location_id)
);
```

```sql
create table atm_dump.atm_detail
(
    atmid int not null DISTKEY SORTKEY,
    atm_number VARCHAR(30),
    atm_manfacturer Varchar(75),
    atm_location_id int,
    PRIMARY KEY (atmid),
    FOREIGN KEY (atm_location_id) references atm_dump.atm_location(location_id)
)
```

Create table atm_dump.atm_detail
(
        atmid int null DISTKEY SORTKEY,
        atm_number VARCHAR(30),
        atm_manufacturer Varchar(75),
        atm_location_id int,
        PRIMARY KEY (atmid),
        FOREIGN KEY (atm_location_id) reference
        atm_dump.atm_location(location_id)
);

```sql
create table atm_dump.card_type
(
    card_type_id int not null DISTKEY SORTKEY,
    card_type varchar(25),
    PRIMARY KEY(card_type_id)
);
```

Create table atm_dump.card_type
(
        card_type_id int not null DISTKEY SORTKEY,
        card_type varchar(25),
        PRIMARY KEY(card_type_id)
);

```sql
create table atm_dump.card_type
(
    card_type_id int not null DISTKEY SORTKEY,
    card_type varchar(25),
    PRIMARY KEY(card_type_id)
)
--RequestID=83fbc347-f46f-4c10-9ae2-90167e6d10bb; TraceID=1-63d7ec0e-40ceaf916b9c35593a8a5a4f
```

```sql
create table atm_dump.atm_trans_detail
(
    trans_id bigint not null DISTKEY SORTKEY,
    atm_id int,
    weather_loc_id int,
    date_id int,
    card_type_id int,
    atm_status varchar(20),
    currency varchar(15),
    service varchar(20),
    tansaction_amt int,
    message_code varchar(255),
    message_text varchar(255),
    rain_h decimal(10,5),
    clouds_all int,
    weather_id int,
    weather_main varchar(40),
    weather_description varchar(255),
    Primary Key(trans_id),
    Foreign Key(weather_loc_id) references atm_dump.atm_location(location_id),
    Foreign Key(atm_id) references atm_dump.atm_detail(atmid),
    Foreign Key(date_id) references atm_dump.atm_date(date_id),
    Foreign Key(weather_loc_id) references atm_dump.card_type(card_type_id)
)
```

```sql
create table atm_dump.atm_trans_detail
(
    trans_id bigint not null DISTKEY SORTKEY,
    atm_id int,
    weather_loc_id int,
    date_id int,
    card_type_id int,
    atm_status varchar(20),
    currency varchar(15),
    service varchar(20),
    tansaction_amt int,
    message_code varchar(255),
    message_text varchar(255),
    rain_h decimal(10,5),
    clouds_all int,
    weather_id int,
    weather_main varchar(40),
    weather_description varchar(255),
    Primary Key(trans_id),
    Foreign Key(weather_loc_id) references
atm_dump.atm_location(location_id),
    Foreign Key(atm_id) references
atm_dump.atm_detail(atmid),
    Foreign Key(date_id) references
atm_dump.atm_date(date_id),
    Foreign Key(weather_loc_id) references
atm_dump.card_type(card_type_id)
);
```

To check the tables we created in our cluster we just have to click on our cluster inside that we have to click on dev in dev we find our schema which is atm_dump in this case. Inside atm_dump there are tables where we can see our all the tables which we have been created till now.

Redshift query editor v2

Create ▾

Load data

≪

Q Filter resources

⟳

∨ 🗄 etl ⓘ ⋮

∨ 📁 dev

∨ 📂 atm_dump

∨ ▦ Tables 5

▦ atm_date

▦ atm_detail

▦ atm_location

▦ atm_trans_detail

▦ card_type

> 👁 Views 0

> 𝑓𝑥 Functions 0

> ⊶ Stored procedures 0

> 📂 public

> 📁 sample_data_dev

Summary

Returned rows: 0
Elapsed time: 14.3s
Result set query:

```
copy atm_dump.atm_location from 's3://etlatm/prateekProject/dim_location/part-00000-e3830904-8514-433f-9dff-61d2a4882b2c-c000.csv'
iam_role 'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
CSV
--RequestID=ef7517be-1f68-4570-8e7c-929c6ff7548e; TraceID=1-63d7f250-48b8053f5016d34b32f5886b
```

Inserting data in atm_location table from S3 bucket dim_location file

```
copy atm_dump.atm_location from 's3://etlatm/prateekProject/dim_location/part-00000-e3830904-8514-433f-9dff-61d2a4882b2c-c000.csv'
iam_role 'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
CSV;

Select  * from atm_dump.atm_location
```

Result 1 (100)   Export   Chart

location	streetname	streetnumber	zipcode	latitude	longitude	locatior
Kolding	Vejlevej	135	6000	55.505	9.457	0
Odense	FÃƒÂ¦lledvej	3	5000	55.394	10.37	3
Skive	Adelgade	8	7800	56.567	9.027	8
Hobro	Adelgade	31	9500	56.638	9.794	12
Nordkraft	Kjellerups Torv	1	9000	57.047	9.932	13
Hasseris	Hasserisvej	113	9000	57.044	9.898	17
Silkeborg	Borgergade	36	8600	56.179	9.552	21
NykÃƒÂ¸bing Mors	Kirketorvet	1	7900	56.795	8.86	26
Menu KÃƒÂ¸bmand K...	Klarupvej	52	9270	57.013	10.046	30
Aarhus	SÃƒÂ¸nder Alle	11	8000	56.153	10.206	31
Aabybro	ÃƒËœstergade	6	9440	57.162	9.73	41
HÃƒÂ¸jslev	ÃƒËœsterrisvej	2	7840	56.551	9.11	43
HillerÃƒÂ¸d	KÃƒÂ¸benhavnsvej	31	3400	55.933	12.314	45
Vodskov	Vodskovvej	27	9310	57.104	10.027	65
Holstebro	Hostrupsvej	6	7500	56.373	8.625	79
Nyborg	Vestergade	35	5800	55.318	10.781	80
Storvorde	VandvÃƒÂ¦rksvej	2	9280	57.005	10.101	88
SÃƒÂ¸lding	Tarphagevej	59	6710	55.498	8.408	90

Inserting data in atm_detail table from S3 bucket dim_atm file

Summary

Returned rows: 0
Elapsed time: 8.2s
Result set query:

```
copy atm_dump.atm_detail from 's3://etlatm/prateekProject/dim_atm/part-00000-394d83d8-6974-41d6-b242-ec074e3294ab-c000.csv'
iam_role 'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
CSV
--RequestID=5f62783c-6cd8-44c8-967f-461c1c5bbd44; TraceID=1-63d7f4eb-10e66dc46b3281ac50008d8c
```

```
copy atm_dump.atm_detail from
's3://etlatm/prateekProject/dim_atm/part-00000-
394d83d8-6974-41d6-b242-ec074e3294ab-c000.csv'
iam_role 'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
CSV;


Select  * from atm_dump.atm_detail
```

Result 1 (100)

atmid	atm_number	atm_manfacturer	atm_location_id
5	76	NCR	24
15	108	NCR	93
22	86	NCR	104
23	37	NCR	21
24	9	Diebold Nixdorf	10
27	54	NCR	9
28	12	NCR	69
33	58	NCR	106
35	23	Diebold Nixdorf	65
39	22	NCR	89
42	16	NCR	8
44	94	NCR	73
46	15	NCR	98
47	110	Diebold Nixdorf	23
60	41	Diebold Nixdorf	108
62	31	NCR	14
66	68	NCR	54
81	83	NCR	16

Inserting data in atm_date table from S3 bucket dim_date file

Summary
Returned rows: 0
Elapsed time: 8.5s
Result set query:

```
copy atm_dump.atm_date from 's3://etlatm/prateekProject/dim_date/part-00000-9baeffb7-3596-4ec8-904c-0964abb8c8d8-c000.csv'
iam_role 'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
timeformat 'YYYY-MM-DDTHH:MI:SS'
CSV
--RequestID=55c42c6e-6ee3-4db3-9a8d-c2ec541aa062; TraceID=1-63d80299-7f2dcc6d07c0505655250fa2
```

Result 1 (100)
Export   Chart

date_id	full_datetime	year	month	day	hour	week
2	2017-01-29 08:00:00	2017	January	29	8	Sunda
4	2017-01-27 14:00:00	2017	January	27	14	Friday
7	2017-02-17 23:00:00	2017	February	17	23	Friday
9	2017-01-02 00:00:00	2017	January	2	0	Mond
10	2017-01-21 14:00:00	2017	January	21	14	Saturc
16	2017-01-16 05:00:00	2017	January	16	5	Mond
18	2017-01-08 20:00:00	2017	January	8	20	Sunda
19	2017-01-13 23:00:00	2017	January	13	23	Friday
25	2017-01-01 22:00:00	2017	January	1	22	Sunda
29	2017-01-06 00:00:00	2017	January	6	0	Friday
37	2017-01-02 02:00:00	2017	January	2	2	Mond
38	2017-01-18 11:00:00	2017	January	18	11	Wedn
40	2017-01-21 13:00:00	2017	January	21	13	Saturc
52	2017-05-03 01:00:00	2017	May	3	1	Wedn
54	2017-04-09 20:00:00	2017	April	9	20	Sunda
56	2017-05-02 14:00:00	2017	May	2	14	Tuesc
57	2017-05-10 15:00:00	2017	May	10	15	Wedn
59	2017-04-25 21:00:00	2017	April	25	21	Tuesc

copy atm_dump.atm_date from
's3://etlatm/prateekProject/dim_date/part-00000-9baeff7-3596-4ec8-904c-0964abb8c8d8-c000.csv'
iam_role
'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
CSV;

Select * from atm_dump.atm_date

```
copy atm_dump.card_type from
's3://etlatm/prateekProject/dim_date/part-00000-1d3caae7-
4242-46ca-8267-bed300905256-c000.csv'
iam_role 'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
CSV;


Select  * from atm_dump.card_type
```

Result 1 (12)

card_type_id	card_type
1	Mastercard - on-us
6	HÃƒÂ¦vekort - on-us
11	Dankort
5	Visa Dankort
0	Visa Dankort - on-us
3	VisaPlus
8	VISA
2	HÃƒÂ¦vekort
4	Dankort - on-us
7	CIRRUS
9	Maestro
10	MasterCard

Result 1 Export Chart

Summary

Returned rows: 0
Elapsed time: 8.6s
Result set query:

```
copy atm_dump.card_type from 's3://etlatm/prateekProject/dim_card_type/part-00000-1d3caae7-4242-46ca-8267-bed300905256-c000.csv'
iam_role 'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
CSV
--RequestID=4b850a71-c28b-4360-be6a-cc8581f8a0d2; TraceID=1-63d8037e-3cfb58871f3350906c57a6ba
```

Inserting data in card_type table from S3 bucket dim_card_type file

trans_id	atm_id	weather_loc_id	date_id	card_type_id	atm_status	curren...
1	103	1	0	5	Inactive	DKK
6	31	9	0	10	Inactive	DKK
11	30	15	0	4	Active	DKK
14	30	15	0	1	Active	DKK
20	32	101	0	0	Active	DKK
32	129	18	0	1	Active	DKK
34	129	18	0	4	Active	DKK
36	129	18	0	0	Active	DKK
48	119	55	0	8	Active	DKK
49	107	37	0	4	Inactive	DKK
50	107	37	0	0	Inactive	DKK
51	107	37	0	6	Inactive	DKK
53	33	106	0	1	Active	DKK
55	9	81	0	1	Inactive	DKK
58	126	73	0	0	Active	DKK
61	139	46	0	10	Inactive	DKK
64	10	33	0	1	Active	DKK
69	42	8	0	4	Inactive	DKK

Result 1 (100) — Export — Chart

```
copy atm_dump.atm_trans_detail from
's3://etlatm/prateekProject/dim_date/part-00000-
1a702799-8272-46e5-8078-e4e2a12a6677-
c000.csv'
iam_role
'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
CSV;


Select  * from atm_dump.atm_trans_detail
```

Summary

Returned rows: 0
Elapsed time: 7.2s
Result set query:

```
copy atm_dump.atm_tran_detail from 's3://etlatm/prateekProject/fact_atm_trans/part-00000-1a702799-8272-46e5-8078-e4e2a12a6677-c000.csv'
iam_role 'arn:aws:iam::471072399170:role/etl_project'
delimiter ',' region 'us-east-1'
CSV
--RequestID=bbb54f14-7bfa-4084-ad71-4096558a8007; TraceID=1-63d816e2-11c25f4f7ddfa5c62d84e8eb
```

Inserting data in atm_trans_detail table from S3 bucket fact_atm_trans file