



ETL Project - Validation Document

Data Ingestion with Sqoop

Please check the number of records that are imported after the Sqoop Job.

Count of Records - 2468572

Data Processing with PySpark

• Check count after importing data into a dataframe

Count of Records - 2468572

Check count for the Location Dimension

Count of Records - 109

Check count for the Card Type Dimension

Count of Records - 12

Check count for the ATM Dimension

Count of Records - 113

Check count for the Date Dimension

Count of Records - 8685

Check count for the all the Stages in the creation of Transaction Fact table

Count of Records in each stage - 2468572

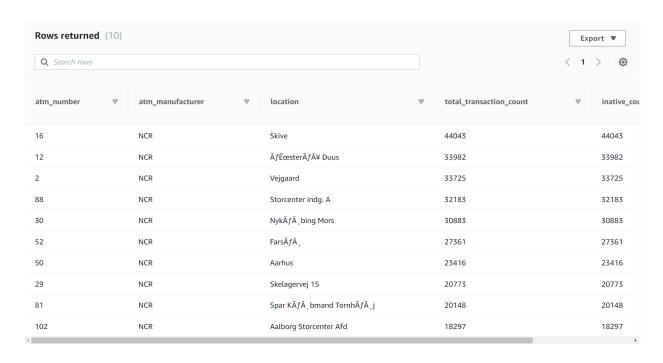




Queries with Amazon RedShift

Check that all the records after importing into the tables is the same as in the step above.

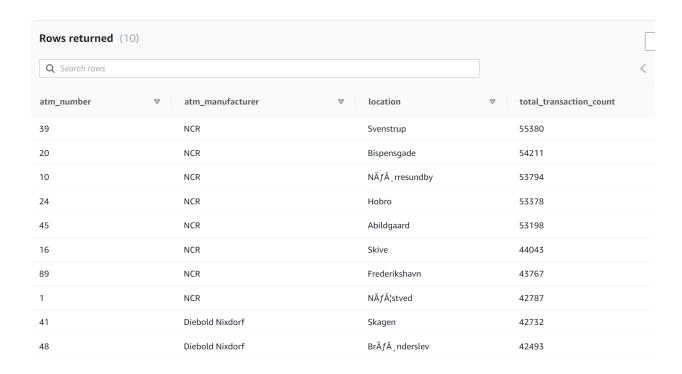
For the result of the queries, you can verify that the result after running the queries is the same as below.







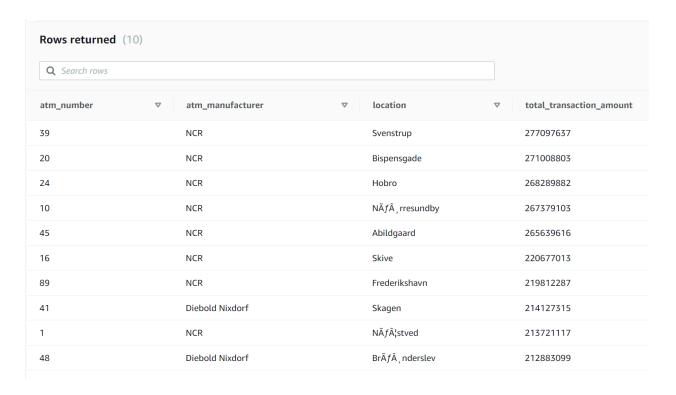
Rows returned (10) Q Search rows				Export ▼ < 1 > ©	
weather_main	▼ total_transaction_count	▼ inative_count	▼ inative_count_percent	,	
Snow	23405	4813	20.5600		
og	18174	3729	20.5100		
Clouds	1181901	194027	16.4100		
Rain	545135	86017	15.7700		
Clear	543949	85531	15.7200		
4ist	82801	12864	15.5300		
hunderstorm	2549	361	14.1600		
Drizzle	62530	8670	13.8600		
ORNADO	38	1	2.6300		
łaze	3	0	0.0000		







	irned (12)			Expor
Q Search	rows			⟨ 1 ⟩
year	▽ month	▽ total_transaction_count	▼ inative_count	▼ inative_count_percent
2017	April	218865	41830	19.1100
2017	August	217218	36713	16.9000
2017	December	197048	20476	10.3900
2017	February	182659	36656	20.0600
2017	January	180195	35953	19.9500
2017	July	227682	38139	16.7500
2017	June	225166	36789	16.3300
2017	March	209586	41046	19.5800
2017	May	222418	37679	16.9400
2017	November	193967	21684	11.1700
2017	October	191667	21780	11.3600
2017	September	202101	28913	14.3000







card_type	▼ total_transaction_count	▼ inative_count	▼ inative_count_percent
Mastercard - on-us	458226	86000	18.7600
VISA	170828	30713	17.9700
Dankort - on-us	143813	24680	17.1600
CIRRUS	17362	2953	17.0000
$ extsf{H} ilde{ extsf{A}}^f ilde{ extsf{A}}^l_{ extsf{I}}$ vekort - on-us	62487	10331	16.5300
Dankort	28581	4557	15.9400
MasterCard	400507	63482	15.8500
Visa Dankort - on-us	748805	112972	15.0800
$ extsf{H} ilde{A}f\hat{A}^{I}_{I}vekort$	8459	1208	14.2800
Visa Dankort	427840	60547	14.1500

atm_number	\triangledown	atm_manufacturer	∇	location	∇	weekend_flag	∇	total_transaction_count
1		NCR		N $\tilde{A}f\hat{A}^{I}_{I}$ stved		0		32711
1		NCR		$N\widetilde{A}f\widehat{A}_{l}^{l}$ stved		1		10076
10		NCR		$N\tilde{A}f\hat{A}$, rresundby		0		41667
10		NCR		$N\tilde{A}f\hat{A}$, rresundby		1		12127
100		NCR		Intern Skive		0		17812
100		NCR		Intern Skive		1		1
101		NCR		Bryggen Vejle		0		11693
101		NCR		Bryggen Vejle		1		3247
102		NCR		Aalborg Storcenter Afd		0		14556
102		NCR		Aalborg Storcenter Afd		1		3741





