

Data Engineering Final Project

DE_E-Commerce Sales

1. Data Generation- Screenshot of Data Generation from Mackaroo.

Field Name	Type	Options
Account	Company Name	blank: 0 % Σ X
Phone	Phone	format: ###-###-#### blank: 0 % Σ X
Website	URL	include: <input checked="" type="checkbox"/> protocol <input checked="" type="checkbox"/> host <input checked="" type="checkbox"/> path <input checked="" type="checkbox"/> query string blank: 0 % Σ X
Billing City	City	blank: 0 % Σ X
Billing State	State	restrict states... Only US blank: 0 % Σ X
Account Owner alias	Full Name	blank: 0 % Σ X

+ ADD ANOTHER FIELD

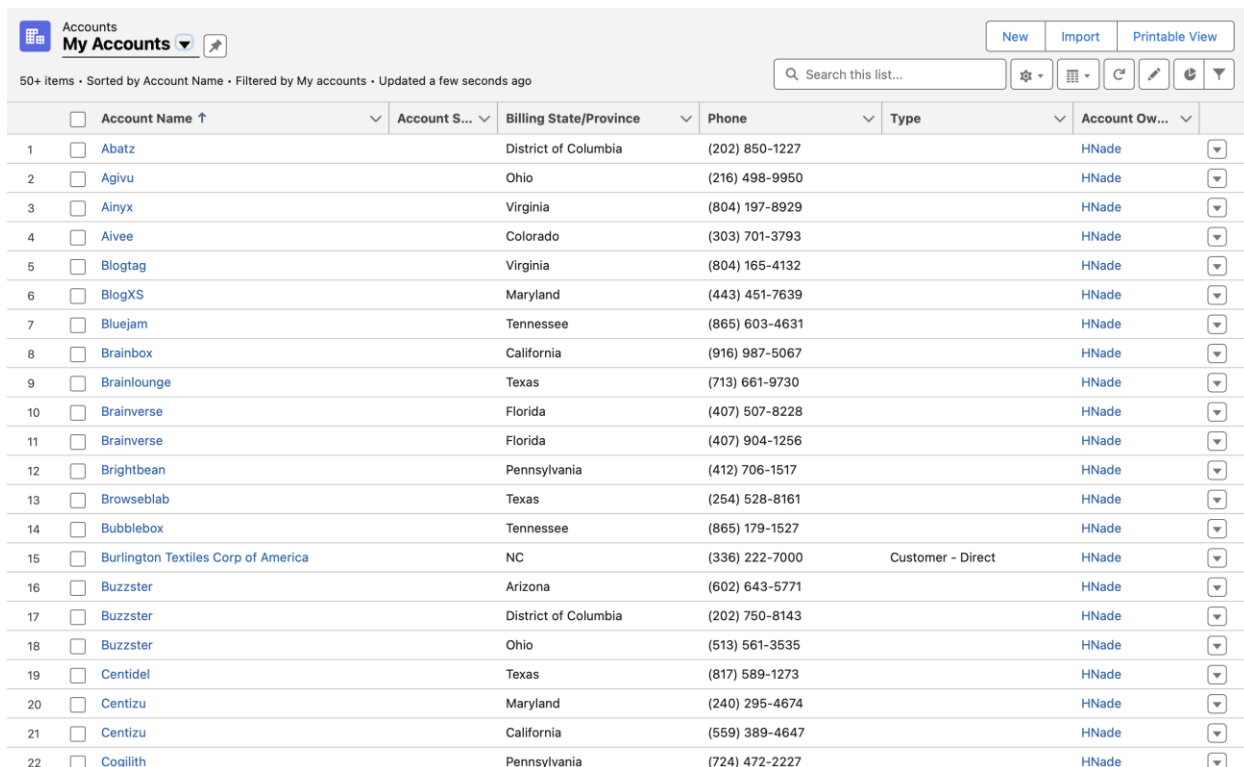
GENERATE FIELDS USING AI...

Rows: 1000 Format: CSV Line Ending: Unix (LF) Include: ☒ header ☐ BOM

Preview of The Data in Mackaroo.

Preview		
TABLE RAW		
Account	Phone	Website
Zoovu	801-637-9179	http://ehow.com/integer/non/velit/donec/diam/neque.json?nibh=libero&in=convallis&quis=eget&justo=eleifend&maecenas=luctus&rhoncus=ultrices&aliquam=eu&lacus=
Mybuzz	810-149-9273	http://altvista.org/nunc/proin/at/turpis/a.jsp?posuere=risus&cubilia=praesent&curae=lectus&donec=vestibulum&pharetra=quam&magna=sapien&vestibulum=varius&a=
Voonyx	661-894-9506	http://networkadvertising.org/leo/rhoncus/sed.json?in=donec&tempus=quis&sit=orci&amet=eget&sem=orci&fusce=vehicula&consequat=condimentum&nulla=curabitur&nis=
Babblestorm	916-553-8308	http://slate.com/cursus.jpg?cubilia=ac&curae=enim&nulla=in&dapiibus=tempor&dolor=turpis&vel=nec&est=euismod&donec=sclerisque&odio=quam&justo=turpis&sollitu=
Zooxo	225-278-7249	https://unc.edu/tortor.html?pulvinar=donec&sed=semper&nis=sapien&nunc=a&rhoncus=libero&dui=nam&vel=dui&sem=proin&sed=leo&sagittis=odio&nam=porttitor&congue=
Trudoo	956-131-8504	https://washington.edu/blandit.jpg?morbi=pharetra&vestibulum=magna&velit=ac&id=consequat&pretium=metus&iaculis=sapien&diam=ut&erat=nunc&fermentum=vestibulum&
Fivechat	213-996-3884	https://baidu.com/ornare/consequat/lectus/in/est/risus/autor.jpg?turpis=pede&enim=posuere&blandit=nonummy&mi=integer&in=non&porttitor=velit&pede=donec&justo=
Youopia	419-391-2257	https://1688.com/pulvinar/lobortis/est/phasellus/sit/amet/erat.aspx?proin=lacus&leo=morbi&odio=quis&porttitor=tortor&id=id&consequat=nulla&in=ultrices&conseq=
Dablist	408-103-8997	https://github.io/mauris/viverra/diam/vitae/quam/suspendisse.aspx?ipsum=in&dolor=faucibus&sit=orci&amet=luctus&consectetuer=et&adipiscing=ultrices&elit=posue=
Trunyx	412-532-1760	http://usatoday.com/scelerisque.jpg?ridiculus=leo&mus=odio&etiam=condimentum&vel=id&augue=luctus&vestibulum=nec&rutrum=molestie&rutrum=sed&neque=justo&aenean=
Quatz	316-696-9991	http://artisteer.com/ipsum/ac/tellus/semper/interdum.jpg?diam=tincidunt&vitae=eu&quam=felis&suspendisse=fusce&potenti=posuere&nulla=felis&porttitor=sed&lacu=
Oba	831-485-0548	http://goo.gl/risus/autor/sed/tristique/in.jpg?volutpat=non&quam=quam&pede=nec&lobortis=dui&liligula=luctus&sit=rutrum&amet=nulla&eleifend=tellus&pede=in&libe=
Jaloo	484-509-8502	http://flavors.me/at.png?bibendum=et&imperdiet=tempus&nulla=semper&orci=est&pede=quam&venenatis=pharetra&non=magna&sodales=ac&sed=consequat&tincidunt=metus&
Jayo	850-941-6105	http://clickbank.net/vel/pede/morbi/porttitor.aspx?pellentesque=aliquet&volutpat=massa&dui=id&maecenas=lobortis&tristique=convallis&est=tortor&et=risus&tempu=
Twinte	309-890-8703	http://ed.gov/in.png?eget=condimentum&vulputate=curabitur&ut=in&ultrices=libero&vel=ut&augue=massa&vestibulum=volutpat&ante=convallis&ipsum=morbi&iprimis=odici=
Voomm	704-344-3683	http://irs.gov/dui/maecenas/tristique/est/et.html?lacinia=potenti&eget=cras&tincidunt=in&eget=purus&tempus=eu&vel=magna&pede=vulputate&morbi=luctus&porttitor=
Lajo	707-459-0221	http://ihg.com/rutrum/nulla/tellus/in/sagittis/dui.html?in=leo&sapien=odio&iaculis=porttitor&congue=id&vivamus=consequat&metus=in&arcu=consequat&adipiscing=ut=
Dazzlesphere	785-726-5867	https://techcrunch.com/justo/sollicitudin/ut.html?sagittis=cursus&nam=vestibulum&congue=proin&risus=eu&semper=mi&porta=nulla&volutpat=ac&quam=enim&pede=in&lo=
Quatz	317-621-8861	http://addthis.com/posuere/felis/sed.js?felis=cras&donec=pellentesque&semper=volutpat&sapien=dui&a=maecenas&libero=tristique&nam=est&dui=et&proin=tempus&leo=
Skynoodle	916-727-1643	https://census.gov/quis/turpis.jpg?hac=rhoncus&shabitasse=mauris&pplatea=enim&dictumst=leo&aliquam=rhoncus&augue=sed&quam=vestibulum&sollicitudin=sit&vitae=am=
Wyd	633-691-9890	http://news.cnet.com/integer/non/velit/donec/diam/neque.json?nibh=libero&in=convallis&quis=eget&justo=eleifend&maecenas=luctus&rhoncus=ultrices&aliquam=eu&lacus=

Data Generation-Salesforce data successfully loaded.



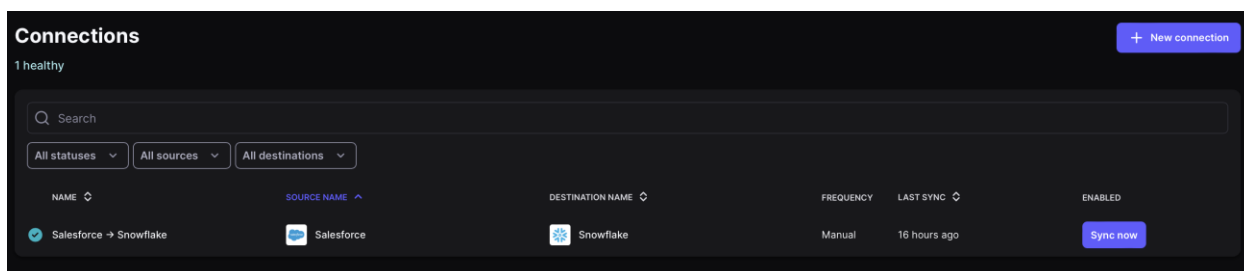
A screenshot of the Salesforce 'Accounts' page. The header shows 'Accounts My Accounts' with a search icon. Below the header, it says '50+ items • Sorted by Account Name • Filtered by My accounts • Updated a few seconds ago'. There is a search bar and several action icons (settings, list view, refresh, edit, delete, filter). The table below lists 22 accounts with columns: Account Name, Account S..., Billing State/Province, Phone, Type, and Account Ow... Each row has a checkbox and a dropdown arrow.

	Account Name ↑	Account S...	Billing State/Province	Phone	Type	Account Ow...
1	<input type="checkbox"/> Abatz		District of Columbia	(202) 850-1227		HNade
2	<input type="checkbox"/> Agivu		Ohio	(216) 498-9950		HNade
3	<input type="checkbox"/> Ainyx		Virginia	(804) 197-8929		HNade
4	<input type="checkbox"/> Aivee		Colorado	(303) 701-3793		HNade
5	<input type="checkbox"/> Blogtag		Virginia	(804) 165-4132		HNade
6	<input type="checkbox"/> BlogXS		Maryland	(443) 451-7639		HNade
7	<input type="checkbox"/> Bluejam		Tennessee	(865) 603-4631		HNade
8	<input type="checkbox"/> Brainbox		California	(916) 987-5067		HNade
9	<input type="checkbox"/> Brainlounge		Texas	(713) 661-9730		HNade
10	<input type="checkbox"/> Brainverse		Florida	(407) 507-8228		HNade
11	<input type="checkbox"/> Brainverse		Florida	(407) 904-1256		HNade
12	<input type="checkbox"/> Brightbean		Pennsylvania	(412) 706-1517		HNade
13	<input type="checkbox"/> Browseblab		Texas	(254) 528-8161		HNade
14	<input type="checkbox"/> Bubblebox		Tennessee	(865) 179-1527		HNade
15	<input type="checkbox"/> Burlington Textiles Corp of America		NC	(336) 222-7000	Customer - Direct	HNade
16	<input type="checkbox"/> Buzzster		Arizona	(602) 643-5771		HNade
17	<input type="checkbox"/> Buzzster		District of Columbia	(202) 750-8143		HNade
18	<input type="checkbox"/> Buzzster		Ohio	(513) 561-3535		HNade
19	<input type="checkbox"/> Centidel		Texas	(817) 589-1273		HNade
20	<input type="checkbox"/> Centizu		Maryland	(240) 295-4674		HNade
21	<input type="checkbox"/> Centizu		California	(559) 389-4647		HNade
22	<input type="checkbox"/> Cogilith		Pennsylvania	(724) 472-2227		HNade

3.Data Preparation-Screenshot of SQL script for creation of database objects in snowflake.

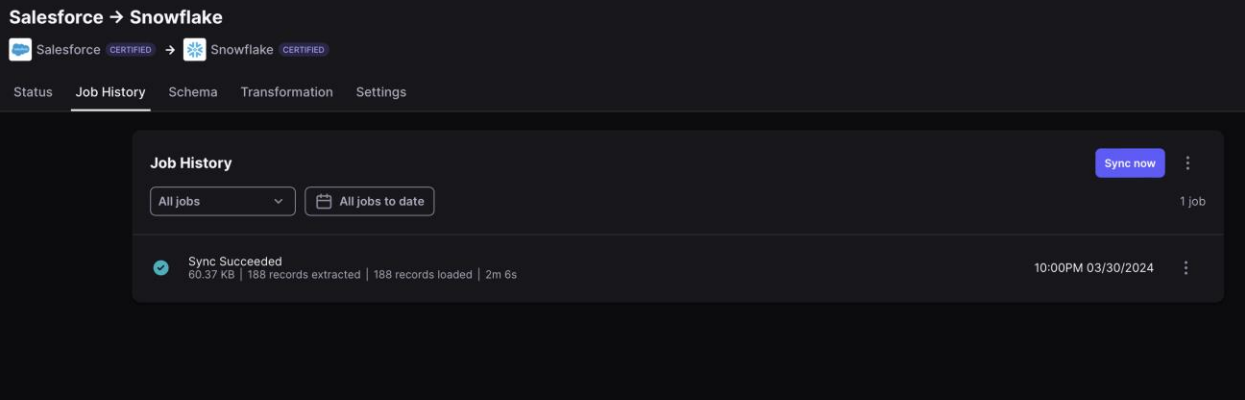
```
--Create a Database for the Term Project
CREATE OR REPLACE DATABASE DE_Ecommerce_sales;
--Create a Schema within the above DB for the Term Project
CREATE OR REPLACE SCHEMA DE_Ecommerce_sales.STAGE_DATA;
```

4.Data Loading-Screenshot of successfully loading data into Snowflake by From Airbyte.



A screenshot of the Airbyte 'Connections' page. It shows a table with one connection: 'Salesforce → Snowflake'. The table has columns: NAME, SOURCE NAME, DESTINATION NAME, FREQUENCY, LAST SYNC, and ENABLED. The connection is marked as '1 healthy' and has a 'Sync now' button.

NAME	SOURCE NAME	DESTINATION NAME	FREQUENCY	LAST SYNC	ENABLED
✓ Salesforce → Snowflake	Salesforce	Snowflake	Manual	16 hours ago	Sync now



Data Loaded into the snowflake-Below is the result of the SQL query to show that data have been successfully loaded into the snowflake from Salesforce through the Airbyte.

```
SELECT * FROM DE_Ecommerce_sales.STAGE_DATA.ACCOUNT;
```

	_AIRBYTE_RAW_ID	_AIRBYTE_EXTRACTED_AT	_AIRBYTE_META	ID	NAME	PHONE
1	076a356d-b69b-4f77-9d5c-0854e13ef423	2024-03-31 02:01:26.898 +0000	{ "errors": [] }	001bm000002wqVZAAY	Realblab	(405) 867-7103
2	0c6d6b32-695c-4140-ae36-f5642ec8de43	2024-03-31 02:01:27.001 +0000	{ "errors": [] }	001bm000002wqWMAAY	Reallinks	(414) 799-6442
3	f5e5d0d5-478e-44b0-808f-24d1597199a3	2024-03-31 02:01:27.114 +0000	{ "errors": [] }	001bm000002xBNLAA2	Janyx	(405) 382-0768
4	417ba086-e2b3-4eea-897f-355de858fb8e	2024-03-31 02:01:26.896 +0000	{ "errors": [] }	001bm000002wqVWAAAY	Vipe	(801) 177-9307
5	c7382e6d-22b5-4fc6-ba7c-3a5ca743d9a5	2024-03-31 02:01:26.951 +0000	{ "errors": [] }	001bm000002wqVyAAI	Yakidoo	(312) 476-4209
6	b213b4f7-7ad5-4cd7-a798-0797e492712e	2024-03-31 02:01:26.858 +0000	{ "errors": [] }	001bm000002wqV9AAI	Centizu	(240) 295-4674
7	0dca3ffc-aeaf-463a-a2c6-982a41a1767d	2024-03-31 02:01:26.964 +0000	{ "errors": [] }	001bm000002wqW7AAI	Skynoodle	(918) 105-2596
8	2569e9d4-ccc2-4718-8617-94278e079d70	2024-03-31 02:01:27.038 +0000	{ "errors": [] }	001bm000002xBMWAA2	Tagtune	(213) 766-8054
9	1a4beeb9-70bf-4ae6-b0a1-d1a8ef9230fc	2024-03-31 02:01:26.953 +0000	{ "errors": [] }	001bm000002wqW0AAI	Skimia	(330) 893-8962
10	7981d5e9-0c01-4c4a-842e-58f59adcefdf	2024-03-31 02:01:27.121 +0000	{ "errors": [] }	001bm000002xBNVAA2	Twimbo	(336) 525-3972
11	7d6a9ff7-cb66-49ae-8100-419730f5a67f	2024-03-31 02:01:26.961 +0000	{ "errors": [] }	001bm000002wqW3AAI	Brainverse	(407) 507-8228
12	86080f82-8576-4240-b6a4-fb5c21494538	2024-03-31 02:01:27.060 +0000	{ "errors": [] }	001bm000002xBMFAAM	Livetube	(541) 532-6922
13	edce9eea-72ed-4e1b-b4d9-23f61c215510	2024-03-31 02:01:26.839 +0000	{ "errors": [] }	001bm000002wh9yAAA	United Oil & Gas Corp.	(212) 842-5500
14	dbc81d9d-b3b0-4c75-acfa-24dad9b734b1	2024-03-31 02:01:27.090 +0000	{ "errors": [] }	001bm000002xBN9AAM	Twitterlist	(757) 300-4348
15	4817b84c-c04e-436a-a1a7-42b35cf2715f	2024-03-31 02:01:27.085 +0000	{ "errors": [] }	001bm000002xBN0AAM	Dabtype	(239) 186-5077