Jhirsc21

February 18, 2024

```
[1]: import warnings warnings.filterwarnings('ignore')
```

1 Lab 4 - Data (ETL)

[2]: %matplotlib inline

1.1 General Instructions

In this course, Labs are the chance to applying concepts and methods discussed in the module. They are a low stakes (pass/fail) opportunity for you to try your hand at *doing*. Please make sure you follow the general Lab instructions, described in the Syllabus. The summary is:

- Discussions should start as students work through the material, first Wednesday at the start of the new Module week.
- Labs are due by Sunday.
- Lab solutions are released Monday.
- Post Self Evaluation and Lab to Lab Group on Blackboard and Lab to Module on Blackboard on Monday.

The last part is important because the Problem Sets will require you to perform the same or similar tasks without guidance. Problem Sets are your opportunity to demonstrate that you understand how to apply the concepts and methods discussed in the relevant Modules and Labs.

1.2 Specific Instructions

- 1. For Blackboard submissions, if there are no accompanying files, you should submit *only* your notebook and it should be named using *only* your JHED id: fsmith79.ipynb for example if your JHED id were "fsmith79". If the assignment requires additional files, you should name the *folder/directory* your JHED id and put all items in that folder/directory, ZIP it up (only ZIP...no other compression), and submit it to Blackboard.
 - do **not** use absolute paths in your notebooks. All resources should located in the same directory as the rest of your assignments.
 - the directory **must** be named your JHED id and **only** your JHED id.
 - do **not** return files provided by us (data files, .py files)
- 2. Data Science is as much about what you write (communicating) as the code you execute (researching). In many places, you will be required to execute code and discuss both the

purpose and the result. Additionally, Data Science is about reproducibility and transparency. This includes good communication with your team and possibly with yourself. Therefore, you must show all work.

- 3. Avail yourself of the Markdown/Codecell nature of the notebook. If you don't know about Markdown, look it up. Your notebooks should not look like ransom notes. Don't make everything bold. Clearly indicate what question you are answering.
- 4. Submit a cleanly executed notebook. The first code cell should say In [1] and each successive code cell should increase by 1 throughout the notebook.

Note This assignment will have multiple files. Follow those instructions.

1.3 Lab

Reid's is a small breakfast stand that sells drinks (coffee, tea, sodas) and food (egg & sausage, oatmeal) in a commercial downtown area, Monday through Friday, from 8a until 11am. Although their menu is small, they do try to cater to a wide variety of diets and thus provide both vegan and keto options for most of their meals. They started using Ordr as their Point of Sale (POS) system about two months ago and are on the Basic Plan.

Under the Basic Plan, they are able to use the Ordr API to access orders. This order information comes in the form of a denormalized JSON document. In order to make any sense of things, you need to normalize it in the Datawarehouse.

- 1. You are not actually going to access an external API. Use the provided JSON file as the data that the API would return.
- 2. You are doing "ETL in the Large" in this assignment. You are going to build a datawarehouse in SQLite, *not* an application database. This difference is substantial. Refer to the draft chapter of Fundamentals for some of the differences.

Note We sometimes get strange questions about the use of SQLite like, "do you really use SQLite in production?". We use SQLite jor this Lab for the following reasons:

- 1. SQLite is a real RDBMS.
- 2. SQLite uses real SQL. SQL may be the most important skill you can have as a Data Scientist doing Data Science.
- 3. Most importantly, the database itself is a standalone file that you can submit to us.

That being said, under some and somewhat weird circumstances, I have used SQLite on real projects before. However, the learning objective is not SQLite, SQLite is tool.

Note

You may need to install <tt>sqlite</tt>. It is normally on MacOs and may be on Linux alread:

Note We assume you know the basics of RDMBS and SQL DDL in this course (It is in the course prerequisites!). That you understand what "normalized" and "denormalized" data means and that you know about primary and foreign keys. This article does talk about the major points. Additionally, we assume you know SQL and DDL. If you do not, this Lab will be more challenging than usual and you should start early.

Important - You must not use Pandas for any part of this assignment. Why not? Because you should know how to do these things without relying on Pandas.

1.4 Part 1

1.4.1 Learning Objectives

- investigate the structure of data acquired from a 3rd party.
- convert denormalized data into normalized data, according to common data warehouse practices.
- design a data warehouse to store production data acquired from a 3rd party.
- write data to a data warehouse.

This assignment is not about tools per se but about broader skills and concepts.

You will be creating the following files:

- 1. **reids.sql** this file will create the database structure using DDL. Make sure you review the data and sketch out your design.
- 2. reids.db this is the actual database, our data warehouse.

```
> sqlite3 reids.db < reids.sql
```

will create the database and all the tables. The database will be empty at this point.

```
<strong>Note</strong>
```

"<tt>></tt>" represents the command line. Your sqlite executable may have a different name."

3. reids.py - this program will parse the JSON file and fill the database.

```
> python reids.py
```

Unfortunately, the documentations for the Ordr API is sparse, here is an example of one order:

The date format is Month/Day/Year

Make sure you look through the data to see what values are possible for each of the fields. The standards of normalization/denormalization for datawarehouses are slightly different or can be different than regular production RDMBS systems. For example, we might be tempted to create a menu_items table:

```
id name price
```

1	coffee	2.75
2	flavor shot	1.00
3	egg salad sandwich	4.50

An issue arises if we change the name to "Kona Coffee" because it will change it for past purchases. That is, customers in the past bought based on the name "Coffee" and not "Kona Coffee". This might be important. Even worse, if we change the price to \\$3.00, it changes it for all past purchases and that is clearly wrong.

In a production RDMBS we often want the data to change everywhere it is used. If "Steve" changes his name to "Sam", we want that to be reflected in any query and report. For datawarehousing, though, we want to preserve the historical fidelity of the data. This means we have a tendency to normalize *less* than we would otherwise do. It's worth noting that there is a trend to preserve the historical fidelity in production databases as well by things like soft deletes.

This means the main issue for the Ordr data is storing the three main entities and creating primary/secondary keys. You will need to create these.

All of this "parsing and massaging" work will be done in the reids.py file. It will contain the code to parse the JSON file and fill the database, performing whatever normalization and standardization is required as well as creating whatever primary and foreign key relationships seem reasonable.

You must create the following tables in the database:

- 1. items
- 2. charges
- 3. payments

but you can add additional tables as necessary (it is not uncommmon to include tables in dataware-houses that support analytics such as information about business dates).

Note Feel free to develop reids.py as a Notebook and then generate the .py from the .ipynb file...just make sure you only include the .py file and that it will run from the command line as specified above and you have commented out any debug/chatter.

Important There are some "gotchas". 1. When inserting data into the database, don't forget to the commit. 2. If you must reconstruct your database, make sure you "free" all references to it. If you use a script to change it but it's open your notebook, the open version in the notebook won't necessarily see those changes. You'll need to get a new connection.

When you are done with this part, you should be able to proceed to Part 2.

Everything having to do with parsing the JSON file from Ordr and setting up the "data warehouse" should be done in the three files described above and not in this Notebook.

1.5 Part 2

1.5.1 Learning Objectives

You almost never start out with a Notebook and start pulling data. The idea that you launch Jupyter Notebook and load a readily available CSV is an incredibly artificial artifact of school (if you had to pull data The Real Way(tm) for every assignment, we'd never get anything done).

Instead, you are more likely to start out with a database and you run queries directly against the database, finding out where and what everything is, answering some initial questions.

Run queries against an RDBMS to answer basic business questions.

Some data science projects are literally just this: someone asks a question, you investigate the data, you run a query using something like MySQL Workbench, Toad (Windows Only) or Postico (MacOS Only). There are also generic SQL clients. For example, VSCode has SQL extensions.

You will mimic that experience here by using only the sqlite Python library (included in the base installiation, link is to documentation). As with Part 1, you may *not* use Pandas for this part. Additionally, you *must* not print out native Python data structures. Tabulate has been provided in the environment.yml for your use.

For Part 2, everything should be done here, in this notebook.

Note The general format is discuss/code/discuss. For the questions below, you should be able to:

- 1. explain what the query does (discuss)
- 2. execute and display the query result (code)
- 3. interpret the result (discuss)

All three are required for full credit on something like Problem Set so you should practice the triad here. It is permissible to use a query to get raw data (and show it in a table) and then perform a calculation with that raw data (just add a code cell). However, you should do as much as possible in SQL.

```
<strong>Note</strong>
```

There is a significant work/payoff imbalance here and this reflects real life. Setting up the data warehouse is 80% of the effort but only 20% of the credit. Your boss just doesn't care about your struggles with the data, they only care about answering the queries. As a result, the queries (Part 2) may be 20% of the effort but they're 80% of the grade. They're proof that you did Part 1 correctly. If you don't get to the queries, if you don't do them right, there's no proof.

Using the database reids.db and SQL please answer the following questions:

```
[3]: from tabulate import tabulate import sqlite3
```

```
[4]: con = sqlite3.connect('reids.db')
crsr = con.cursor()
```

1.5.2 Question 1.

What were Reid's order count and gross revenue by day for the two month period?

For order count, we can simply count up the amount of charges. For gross revenue, we can sum the totals from each charge.

```
[5]: orders = crsr.execute('''SELECT count(*) FROM charges''')
orders = crsr.fetchall()
```

```
data = [[orders[0][0]]]
print(tabulate(data, headers=['Orders']))
```

Orders -----2071

So there were 2071 orders for this period.

Note I split up the day and time as separate columns in the database, which allows us to group by day for this query.

```
[6]: revenue = crsr.execute('''SELECT date, SUM(total) FROM charges GROUP BY date''')
revenue = crsr.fetchall()
data = []
for day in revenue:
    data.append(day)

print(tabulate(data, headers=['Date', 'Gross Revenue']))
```

Date	Gross Revenue
2021-04-01	188.87
2021-04-02	265.11
2021-04-05	339.77
2021-04-06	276.09
2021-04-07	188.63
2021-04-08	345.92
2021-04-09	341.58
2021-04-12	294.54
2021-04-13	167.5
2021-04-14	288.41
2021-04-15	262.69
2021-04-16	402.63
2021-04-19	276.1
2021-04-20	265.65
2021-04-21	207.62
2021-04-22	316.76
2021-04-23	408.49
2021-04-26	256.32
2021-04-27	240.78
2021-04-28	267.53
2021-04-29	259.79
2021-04-30	284.13
2021-05-03	285.47
2021-05-04	263.49
2021-05-05	188.86
2021-05-06	359.81
2021-05-07	355.28

```
2021-05-10
                    301.24
2021-05-11
                    171.73
2021-05-12
                    202.26
2021-05-13
                    315.68
2021-05-14
                    263.23
2021-05-17
                    170.68
2021-05-18
                    274.5
2021-05-19
                    296.44
2021-05-20
                   331.69
2021-05-21
                    333.32
2021-05-24
                    288.93
2021-05-25
                    318.1
2021-05-26
                    222.31
                    255.49
2021-05-27
                    273.43
2021-05-28
```

Here we can see the gross revenue summed by date.

1.5.3 Question 2.

What is Reid's average order count and gross revenue by day of the week?

```
[8]: revenue = crsr.execute('''SELECT DISTINCT date FROM charges''')
     revenue = crsr.fetchall()
     weekdays = \{\}
     # mapping each date to day of the week
     for day in revenue:
         day_of_week = crsr.execute('''SELECT strftime('%w', ?)''', (day))
         day_of_week = crsr.fetchall()
         weekdays[day] = day_of_week
     # use SQL to find orders and revenue per day
     order_totals = crsr.execute('''SELECT date, SUM(total) FROM charges GROUP BY

date''')
     order_totals = crsr.fetchall()
     orders = crsr.execute('''SELECT count(*) FROM charges GROUP BY date''')
     orders = crsr.fetchall()
     # put it all together
     data = []
     for i, day in enumerate(order_totals):
         data.append([day[0], day[1], orders[i][0]])
     print(tabulate(data, headers=['Date', 'Daily Revenue', 'Total Orders']))
```

Date	Daily Revenue	Total Orders
2021-04-01	188.87	34

2021-04-02	265.11	51
2021-04-05	339.77	57
2021-04-06	276.09	48
2021-04-07	188.63	32
2021-04-08	345.92	58
2021-04-09	341.58	62
2021-04-12	294.54	55
2021-04-13	167.5	32
2021-04-14	288.41	54
2021-04-15	262.69	45
2021-04-16	402.63	75
2021-04-19	276.1	49
2021-04-20	265.65	43
2021-04-21	207.62	39
2021-04-22	316.76	55
2021-04-23	408.49	75
2021-04-26	256.32	47
2021-04-27	240.78	46
2021-04-28	267.53	44
2021-04-29	259.79	50
2021-04-30	284.13	53
2021-05-03	285.47	48
2021-05-04	263.49	47
2021-05-05	188.86	35
2021-05-06	359.81	58
2021-05-07	355.28	63
2021-05-10	301.24	51
2021-05-11	171.73	30
2021-05-12	202.26	33
2021-05-13	315.68	59
2021-05-14	263.23	51
2021-05-17	170.68	30
2021-05-18	274.5	48
2021-05-19	296.44	55
2021-05-20	331.69	59
2021-05-21	333.32	63
2021-05-24	288.93	48
2021-05-25	318.1	55
2021-05-26	222.31	39
2021-05-27	255.49	45
2021-05-28	273.43	50

I tried mapping each day into the day of the week, but couldn't quite get the data to do what I wanted. I've shown the amount of orders and daily revenue - in order to find these values by days of the week, we just need to add up each row depending on the day of the week it is, which is mapped in the weekdays dict above.

1.5.4 Question 3.

How many cups of coffee does Reid's sell per day, on average?

Reids sells an average of about 36 cups of coffee per day. There is probably a better way to answer this question, but I was having some trouble with some of the join statements as well as inserting values into my Orders table.

1.5.5 Question 4.

What proportion of orders contain "up charges" like flavor shots, vegan or keto substitutions?

```
Proportion of Upcharges
------
453 out of 2071
```

We see here that there were 453 out of the total 2071 orders with upcharges, or about 22%.

1.5.6 Question 5.

Reid's considers someone to be a "regular" if they come at least 3 out of 5 days per week. How many regulars do you estimate there are and what are their names? How many days per week do they each come on average? What are the limits of this calculation based on the available data?

[(30,)]

I can select individual names here based on the JOIN statement above, but not sure how to correctly formulate the SQL statement to fetch all the data for when all the customers come in by week. Again, my Orders table I don't think is set up 100% correctly.

```
customer = crsr.execute('''SELECT * FROM payments GROUP BY cardholder ''')
customer = crsr.fetchall()
data = []
for payment in customer:
    data.append(payment)

print(tabulate(data, headers=['cust_id', 'method', 'card', 'last_4', 'zip', \u00c4
\u00e9'name']))
```

cust_id	method	card	last_4	zip	name
3	cash				
94	credit_card	${ t mastercard}$	2460	21217	Aaron Bridges
276	credit_card	visa	3660	21201	Aaron Compton
553	credit_card	${\tt mastercard}$	1369	21226	Aaron Crane
347	credit_card	${\tt mastercard}$	1505	21270	Aaron Ellis
337	credit_card	${\tt mastercard}$	1511	21281	Abigail Carter
118	credit_card	${\tt mastercard}$	4229	21278	Abigail Hall
747	credit_card	visa	2280	21205	Adam Brooks
115	credit_card	mastercard	2581	21274	Adam Thompson
86	credit_card	visa	5136	21230	Adrian Herman
270	credit_card	visa	6840	21205	Adrian James
567	credit_card	visa	946	21231	Adriana Young
66	credit_card	visa	9698	21223	Alexander Atkinson
358	credit_card	mastercard	2556	21287	Alexander Nelson
215	credit_card	visa	7626	21278	Alexis Campbell
349	credit_card	visa	275	21263	Alexis Thompson
376	credit_card	mastercard	822	21214	Allison White
116	credit_card	visa	2661	21280	Allison Wright
104	credit_card	visa	1870	21274	Alyssa Carr
249	credit_card	visa	8879	21279	Alyssa Marsh MD

```
21288
                                                 Amanda Alexander
511
     credit_card visa
                                   2248
589
     credit_card
                  visa
                                   5427
                                         21223
                                                 Amanda Anderson
575
     credit_card
                                   1669
                                         21226
                                                 Amanda Ayala
                  visa
752
     credit_card
                                   2120
                                         21264
                                                 Amanda Mccoy
                  visa
541
     credit card
                  visa
                                   8855
                                         21223
                                                 Amanda Mcintyre
285
     credit card
                  mastercard
                                   2960
                                         21217
                                                 Amanda Oconnor
530
     credit card
                                   5195
                                         21225
                                                 Amanda Wright
                  mastercard
675
     credit_card
                  mastercard
                                   9664
                                         21270
                                                 Amanda York
384
     credit card
                  visa
                                   8181
                                         21223
                                                 Amber Rodriguez
125
     credit_card
                  visa
                                   6278
                                         21283
                                                 Amy Hernandez
355
     credit_card
                                   6922
                                         21216
                                                 Amy Hogan
                  visa
626
     credit_card
                  visa
                                   4594
                                         21217
                                                 Amy Massey
407
                                         21278
                                                 Amy Norton
     credit_card
                  mastercard
                                   7804
674
     credit_card
                                   9057
                                         21202
                                                 Amy Oconnor
                  mastercard
517
     credit_card
                  mastercard
                                   7477
                                         21283
                                                 Amy Robinson
334
                  visa
                                         21278
     credit_card
                                   7608
                                                 Amy Warren
 31
     credit_card
                                   8120
                                         21273
                                                 Andrea Baker DVM
                  visa
                                   9614
  4
     credit_card
                                         21216
                                                 Andrea Francis
                  visa
225
     credit_card
                                         21226
                                                 Andrea Hall
                  visa
                                   5075
198
     credit card
                                   4653
                                         21298
                                                 Andrew Johnson
                  visa
     credit card
                  visa
                                   6072
                                         21213
                                                 Andrew Luna
351
     credit card
                  visa
                                    528
                                         21201
                                                 Andrew Pena
375
     credit_card
                  visa
                                    685
                                         21287
                                                 Angel Griffin
                                         21263
                                                 Angela Gallagher
173
     credit card
                                   1820
                  visa
191
     credit_card
                                   7464
                                         21280
                                                 Angela Gregory
                  visa
600
     credit_card
                                   8542
                                         21279
                                                 Angela Harrison
                  visa
309
     credit_card
                                   9689
                                         21223
                                                 Angela Haynes
                  visa
146
     credit_card
                  mastercard
                                   5625
                                         21270
                                                 Anna Cruz
305
     credit_card
                  mastercard
                                   5514
                                         21233
                                                 Anna Hall
641
     credit_card
                                   9652
                                         21233
                                                 Anna Mcpherson
                  mastercard
654
                                   5308
                                         21264
     credit_card
                  visa
                                                 Anna Ramos
438
     credit_card
                                   8757
                                          21251
                                                 Anne Clayton
                  visa
494
     credit_card
                                   1287
                                         21217
                                                 Anne Compton
                  visa
735
     credit_card
                                         21283
                                   9743
                                                 Anne Miles
                  visa
350
     credit card
                                   5799
                                         21226
                                                 Anthony Hunter DDS
                  visa
566
     credit card
                  mastercard
                                   8875
                                         21263
                                                 Anthony Mack
     credit card
                                   9801
                                         21270
                                                 Anthony Martin
                  visa
96
     credit card
                                   9591
                                         21297
                                                 Anthony Wilson
                  visa
                                                 Antonio Porter
724
     credit_card
                  visa
                                   7819
                                         21218
128
     credit_card
                                   6166 21226
                                                 April Figueroa
                  visa
260
                                                 April Torres
     credit_card
                  visa
                                   7541
                                         21275
432
                                                 Ashley Baker
     credit_card
                                   6878
                                         21225
                  visa
720
                                         21298
                                                 Ashley Barnes
     credit_card
                  visa
                                   1068
161
     credit_card
                  visa
                                   3247
                                          21203
                                                 Ashley Brown
456
     credit_card
                                   5538
                                         21263
                                                 Ashley Cardenas
                  mastercard
152
     credit_card
                  mastercard
                                   5557
                                          21279
                                                 Ashley Hughes
324
     credit_card
                                   1268
                                         21297
                                                 Ashley Schaefer
                  visa
232
     credit_card
                                   7843
                                         21290
                                                 Audrey Hall
                  visa
```

```
21211
                                                 Austin Harrell
246
     credit_card visa
                                    351
734
     credit_card
                  visa
                                   7126
                                         21289
                                                 Autumn Fuller
32
     credit_card
                                   2808
                                         21226
                                                 Barbara Greene
                  visa
     credit_card
                                         21202
                                                 Barbara Jacobs
413
                                   4431
                  mastercard
606
     credit card
                  visa
                                   3573
                                         21283
                                                 Barbara Rodriguez
     credit card
502
                  mastercard
                                   9942
                                         21298
                                                 Barbara Solomon
251
     credit card
                  visa
                                   8109
                                         21265
                                                 Benjamin Buck
149
     credit_card
                  visa
                                   1415
                                         21201
                                                 Benjamin Cox
                                                 Benjamin Fields
545
     credit card
                  visa
                                   7389
                                         21283
448
     credit_card
                  mastercard
                                   8349
                                         21278
                                                 Benjamin Gray
393
     credit_card
                                   7480
                                         21226
                                                 Beth Gomez DDS
                  visa
342
     credit_card
                  visa
                                   5000
                                         21290
                                                 Beth Turner
323
                                   3666
                                         21279
                                                 Betty Wilcox
     credit_card
                  visa
583
     credit_card
                                         21265
                                                 Billy Mills
                  visa
527
     credit_card
                  mastercard
                                    274
                                         21216
                                                 Bobby Mills
229
                                         21283
     credit_card
                                   2386
                                                 Bonnie Fisher
                  visa
160
     credit_card
                                   3652
                                         21270
                                                 Bradley Williams
                  visa
     credit_card
                                   6983
                                         21231
                                                 Brady Clark
168
                  visa
     credit_card
                                         21201
                                                 Brandi Jones
183
                  visa
                                   7931
671
     credit card
                                   4713
                                         21289
                                                 Brandon Love DVM
                  visa
167
     credit card
                  mastercard
                                   2134 21205
                                                 Brandon Simon
624
     credit card
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                                         21216
                                                 Brandy Hernandez
272
     credit_card
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                                                 Breanna Johnson
707
                                         21211
                                                 Brenda Gomez
     credit_card
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                                   7954
712
     credit_card
                                   2550
                                         21274
                                                 Brenda Hammond
                  visa
     credit_card
                                   5056
                                         21274
                                                 Brent Morgan
  1
                  mastercard
206
     credit_card
                                   6857
                                         21211
                                                 Brett Parker
                  visa
109
     credit_card
                  mastercard
                                   9677
                                         21233
                                                 Brian Allen
677
     credit_card
                  visa
                                   9818
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                                                 Brian Hawkins
257
     credit_card
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                                         21223
                                                 Brian Holmes
                  mastercard
277
                                         21201
                                                 Brian Jensen
     credit_card
                  visa
                                   5253
108
     credit_card
                                   8245
                                         21205
                                                 Brian Macdonald
                  mastercard
660
     credit_card
                  visa
                                   1070
                                         21297
                                                 Brian Sanders
339
     credit_card
                                   6920
                                         21289
                                                 Brian Shaw
                  visa
148
     credit card
                                   4954
                                         21289
                                                 Brian Whitaker
                  mastercard
119
     credit card
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245
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                                         21278
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254
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                                                 Brittany Howard DDS
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     credit_card
                                                Brittany Huynh MD
593
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                                         21203
753
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                  mastercard
                                   5216
                                                 Rebecca Coleman
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                                         21280
                                                Rebecca Ferguson
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                                         21279
                                                Rebecca Garza
                  visa
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                                         21290
                                                Rebecca Pitts
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                                                Rebekah Oconnell
636
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                                         21233
                                                Reginald Schroeder
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                                         21226
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                                         21251
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                                                Richard Sanford
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                                         21233
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                                         21251
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                                         21275
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                                         21275
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                                                Stephen Ramos
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                                                Teresa Marshall
                  visa
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                                               Theresa Russo
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                                        21273
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                                        21223
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                                  2331 21275
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                                               Timothy Rivera
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                                               Travis Simmons
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                                               Troy Anderson
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                                               Tyler Martin
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                                               Veronica Howard
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                                               Victoria Martinez
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                                               Vincent Lee
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390
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                                               Wendy Le
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594 credit_card visa
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                                               William Gonzalez
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                                                 William Johnson
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                                          21275
                                                 William Martin
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54
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                                                 William Quinn
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                                          21201
                                                 William Watson
736
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                                                 Willie Thomas
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                                                  Yesenia Rivers
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                                                  Zachary Sweeney
403
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                  visa
460
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                                    7368
                                          21263
                                                  Zoe Elliott
                  mastercard
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I couldn't quite figure this out because it relies on foreign keys in order to link the charges with the cardholders/payments ids. But essentially what we would do is select the order based on cardholder name and figure out which days they come in per week. My Orders table I don't think was set up 100% correctly, so I was not able to perform multiple JOIN statements for this query, which I believe is necessary to answer this question fully.

I'm going to review the lab solution once we get it on how to set up foreign keys, as it seems like that is most important for these questions. I know most of my tables should be set up correctly except for the foreign keys in the Orders table. Thank you.