1. In a single SQL query, return the total sales for each Brand Name owned by Beam Suntory (holding company) for each and every Date between 3/13/2020 and 6/27/2020 inclusive.

SELECT B.BRAND\_NAME, SUM(O.UNIT\_PRICE\*O.QUANTITY) AS TOTALSALES

FROM Drizly Brands B

JOIN Store\_Order\_Items O ON B.BRAND\_ID = O.BRAND\_ID

WHERE HOLDING\_COMPANY\_NAME = 'Beam Suntory' AND (O.Date BETWEEN '2020/03/13' AND '2020/09/20')

GROUP BY B.BRAND\_NAME;

2. For each Product (ID), determine the “store of sale” that made the first sale of the product in 2019.

SELECT O.PRODUCT\_ID, O.STORE\_ID

FROM Store\_Order\_Items O

INNER JOIN

(SELECT PRODUCT\_ID, STORE\_ID, MIN(DATE) AS MinDateTime

FROM Store\_Order\_Items

WHERE YEAR(DATE) = '2019'

GROUP BY PRODUCT\_ID) groupedtt

ON O.PRODUCT\_ID = groupedtt.PRODUCT\_ID

AND O.DATE = groupedtt.MinDateTime;

3. Someone was trying to add up orders by store within the month of December 2019 using the following query: SELECT store\_id, count(\*) as total\_orders FROM store\_order\_items WHERE date between ‘12/1/19’::date and ‘12/31/19’::date GROUP BY 1 However the stores are saying that they did not receive that many orders, why?

The date format is incorrect, it should be YYYY/MM/DD. Postgres will automatically try to convert incorrect date formats

4. Using Store Order Items, write a query that will output one row for each Order ID with a column denoting whether or not the month name of the order date ends in “r”, as well as a column for whether or not the order contained at least one product with a requested quantity greater than 1.

SELECT ORDER\_ID,

CASE WHEN MONTHNAME(DATE) like '%r' THEN 1 ELSE 0 END AS Ends\_In\_R,

CASE WHEN QUANTITY > 1 THEN 1 ELSE 0 END AS More\_Than\_One;

5. How many users placed their third order containing a product owned by the Diageo holding company on or after 7/15/20? Only consider orders containing at least one Diageo holding company product.

SELECT \*

FROM (

SELECT O.\*,

row\_number() OVER (

PARTITION BY USER\_ID

ORDER BY DATE

) as rank

FROM Store\_Order\_Items O

WHERE DATE >= '2020/07/15'

) O

JOIN Drizly Brands B ON O.BRAND\_ID = B.BRAND\_ID

WHERE O.rank = 3 AND B.HOLDING\_COMPANY\_NAME = 'Diageo';

6. Bonus Question (unrelated to the data tables): Regular Expressions: For each visit to the site we record down the list of stores that are able to deliver to the user, in the format “stores-{pipe-delimited store IDs}” e.g. “stores-35|120|530”, “stores-47”, or “stores-427|3619|12|36|490”. Write a regular expression pattern to match valid data entries with at least one store (store IDs are always pure integers). a. Example invalid entries: i. “stores-24|” ii. “stores-25|29||58” iii. “stores-24s|z29” iv. “storiees-25|29|58” v. “the-stores-25|29|58” vi. “stores-25|29|58-end”