<u>Schema:</u> There are three tables in ecommerce_rating schema. Those tables are:

shop_details, s_rating, s_reviewer

shop_details (sID, sName, year, owner)

English: There is a shop with ID number: sID, a name of the shop: sName, year of starting its operation: year, and an owner of the shop: owner. Owner of a shop can be a person or an organization.

s_rating (rID, sID, stars, ratingDate)

English: The reviewer rID gave the shop sID a number of stars as rating (1-5) on a certain date: ratingDate.

s_reviewer (rID, name)

English: The reviewer with ID number rID has a certain name.

Answer the following Questions

1. Find the names of Reviewers' who have rated **Amazon**.

name
Prothom Alo
The Washington Post

2. Return all the shops' name and the owners' name as a single list. Rename the column as 'List of Shop and Owners'. Sort the list in lexicographical order.

List of Shop and Owners
Alibaba Group
AliExpress
Amazon India
Amazon USA
Amazon.com, Inc.
Daraz
eBay
Evaly
Flipkart
Mohammad Rassel
PickaBoo
Silver Water Technologies Bangladesh Limited
Walmart

3. Find all the shops' name and the year of starting its operation that received a rating 3 or 4. Sort the result set in descending order by the year of starting the operation and shop name.

sName	year ▾ 1
Evaly	2018
PickaBoo	2015
AliExpress	2010
Flipkart	2007
eBay	1995
Amazon USA	1994

4. Find all of the shops' name where the reviewer is the owner of that shop.
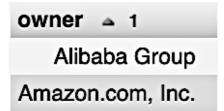
sName
AliExpress

5. Some reviewers reviewed a shop but didn't provide a date with their rating. Find the name and ID of the reviewers who did not provide a date along with their rating.

rID	name
337	Prothom Alo
340	The Daily Observer
343	Alibaba Group

6. Write a query to display each reviewers' name, number of shops reviewed by the reviewer, average rating for all shops provided by the reviewer. Return the reviewers' information also if the reviewer didn't rate any shop. Label the columns as Name, Number of Shops, Average Rating respectively. Round the average rating to one decimal point.

Name	Number of Shop	Average Rating
The Daily Star	2	3.0
Prothom Alo	1	4.0
Forbes	3	2.7
The New York Times	1	3.0
The Daily Observer	3	3.0
The Washington Post	2	4.0
Amazon.com, Inc.	1	5.0
Alibaba Group	1	3.0
Times of India	0	NULL

7. Some organization/person owns more than one shop. For all such shops, return only the owners' name. Sort by owner's name in alphabetical order.

owner ▲ 1
Alibaba Group
Amazon.com, Inc.

8. For all pairs of reviewers such that both reviewers gave a rating to the same shop, return the names of both reviewers. Eliminate duplicates, don't pair reviewers with themselves, and include each pair only once. For each pair, return the names in the pair in alphabetical order.

name ▲ 2	name
The Daily Observer	Alibaba Group
The Daily Observer	Forbes
The New York Times	The Daily Star
The Washington Post	Amazon.com, Inc.
The Washington Post	Prothom Alo

9. Return each shop name, the reviewers name (if present). If there are more than one reviewer who rated the same shop, only return the reviewer's name who provides the highest rating. If the reviewers provide the same rating, return any of the reviewer's name.

Shop Name	Reviewer Name
Evaly	The Daily Star
Flipkart	Forbes
PickaBoo	The Daily Observer
Flipkart	The Daily Observer
Amazon USA	The Washington Post
eBay	Amazon.com, Inc.
AliExpress	Alibaba Group
Daraz	NULL
Amazon India	NULL

10. Find the reviewer who have contributed three or more ratings and return the name and the maximum rating given by each of reviewers(s).

name	MAX RATING
Forbes	4
The Daily Observer	4