

1. Write a program to scrape data from Tripadvisor for hotel ratings. The o/p of this data should be as shown below

subject	name	review	time	location
Great hotel for business travel and relaxation	Julie B	The Pan Pacific at the Marina is one of my preferred hotels in Singapore with an experienced, efficient team that caters to business travellers and offers a range of services and high level of comfort to make for a relaxing and enjoyable experience. I look forward to my next visit!	Reviewed 1 week ago	Elwood
First Experience at Pan Pacific	Firdaus R	My first experience at Pan Pacific Singapore was above my expectations. I stayed over at Pan Pacific in December of 2016, with the holiday season in mind, they were able to meet all my special request such as having my room in the upper floors and away from the elevator. Prior to my arrival, the friendly staff contacted me via...	Reviewed 1 week ago	

2. Write the steps with scripts of how we can schedule this scraper to run every day and bring in the recent reviews and load it into a database.
3. Can you review the terms of service (TOS) for Tripadvisor and advise the various methods and considerations from a TOS perspective.
4. Write a text analytics algorithm on this data to determine the following
 - a. category of
 - i. Food Quality
 - ii. Restaurant
 - iii. Rooms
 - iv. Service
 - v. Price
 - vi. General
 - b. Sentiment
 - c. Keywords
 - d. Entities
5. Write an overall scoring method in SQL to take the individual sentiment and get the aggregate sentiment score for each of the categories by other dimensions – Date, Location of poster
6. Write the SQL for below

Original data:

Company	Department	Salesperson	jan	Feb	mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Company1	Dep1	hemanta	18751	12551	19830	17384	12688	11892	18671	11351	19561	12973	19910	14272
Company1	Dep1	Umesh	14066	14803	10634	12147	18199	16458	10891	14807	10791	19852	19941	15108
Company1	Dep1	Gaj	12551	18723	15108	14870	18687	14853	15688	14254	15041	12623	16454	10634
Company1	Dep1	Shwetank	11599	12648	14547	11752	11512	16291	11352	10355	11513	12239	17005	11892
Company2	Dep2	Sruti	19335	11025	15191	14254	18018	16137	12366	13959	19163	13547	10316	13959
Company2	Dep2	Urvashi	10248	14514	16718	19891	15639	10693	10761	16676	18224	15824	19016	12973

O/P needed

Company	Department	Salesperson	Month	Sales
Company1	Dep1	hemanta	Jan	18751
Company1	Dep1	hemanta	Feb	12551
Company1	Dep1	hemanta	Mar	19830
Company1	Dep1	hemanta	Apr	17384
Company1	Dep1	hemanta	May	12688
Company1	Dep1	hemanta	Jun	11892
Company1	Dep1	hemanta	Jul	18671
Company1	Dep1	hemanta	Aug	11351
Company1	Dep1	hemanta	Sep	19561
Company1	Dep1	hemanta	Oct	12973
Company1	Dep1	hemanta	Nov	19910
Company1	Dep1	hemanta	Dec	14272