**Data description**

7 days of smart card records in Beijing and Shanghai, and 5 days in Shenzhen (all for Shenzhen) are shared in this data set.

\* bj\_2019.csv: Beijing subway from 2019/5/15-2019/5/21.

\* sh\_2015.csv: Shanghai subway from 2015/4/15-2015/4/21.

\* sz\_2017.csv: Shenzhen subway from 2017/10/16-2017/10/20.

|  |  |  |
| --- | --- | --- |
| **Column** | **Definition** | **Data type** |
| card\_id | card identication | text |
| f\_line | identication of the starting subway line | int |
| sid1 | identication of the starting subway station | int |
| fst\_name | name of the starting subway station | text |
| t\_line | identication of the terminal subway line | int |
| sid2 | identication of the terminal subway station | int |
| tst\_name | name of the terminal subway station | text |
| f\_tm | time stamp for entering the subway station | text |
| t\_tm | time stamp for exiting the subway station | text |
| d\_time | interval between the entry and exit timestamps | int |

**Data example:**

$ head -5 bj\_2019.csv

card\_id,f\_line,sid1,fst\_name,t\_line,sid2,tst\_name,f\_tm,t\_tm,d\_time

6c7d1477fff3ea19f1225d779cd681fb,10,68,HAIDIANHUANGZHUANG,6,92,CAOFANG,2019-05-20 21:20:00,2019-05-20 22:15:21,3321

597625ea7857ee67967d0a2b0fb74226,5,75,TIANTONGYUAN NORTH,1,19,GUOMAO,2019-05-20 07:42:00,2019-05-20 08:36:33,3273

597625ea7857ee67967d0a2b0fb74226,1,19,GUOMAO,5,75,TIANTONGYUAN NORTH,2019-05-20 17:10:00,2019-05-20 18:01:30,3090

620997c5c0d36c14e25248b991a7e09b,13,223,HUILONGGUAN,10,188,TAIYANGGONG,2019-05-20 09:51:00,2019-05-20 10:26:54,2154