作业题

1、找出全部夺得3连贯的队伍

team,year 活塞,1990 公牛,1991 公牛,1992 公牛,1993 火箭,1994 火箭,1995 公牛,1996 公牛,1997 公牛,1998 马刺,1999 湖人,2000 湖人,2001 湖人,2002 马刺,2003 活塞,2004 马刺,2005 热火,2006 马刺,2007

凯尔特人,2008 湖人,2009

湖人,2010

create table t1( team string, year int

)row format delimited fields terminated by ',';

load data local inpath "/root/data/t1.dat" into table t1;

2、找出每个id在在一天之内所有的波峰与波谷值

id,time,price sh66688,9:35,29.48 sh66688,9:40,28.72 sh66688,9:45,27.74 sh66688,9:50,26.75 sh66688,9:55,27.13 sh66688,10:00,26.30 sh66688,10:05,27.09 sh66688,10:10,26.46 sh66688,10:15,26.11 sh66688,10:20,26.88 sh66688,10:25,27.49 sh66688,10:30,26.70

sh66688,10:35,27.57 sh66688,10:40,28.26 sh66688,10:45,28.03 sh66688,10:50,27.36 sh66688,10:55,26.48 sh66688,11:00,27.41 sh66688,11:05,26.70 sh66688,11:10,27.35 sh66688,11:15,27.35 sh66688,11:20,26.63 sh66688,11:25,26.35 sh66688,11:30,26.81 sh66688,13:00,29.45 sh66688,13:05,29.41 sh66688,13:10,29.10 sh66688,13:15,28.24 sh66688,13:20,28.20 sh66688,13:25,28.59 sh66688,13:30,29.49 sh66688,13:35,30.45 sh66688,13:40,30.31 sh66688,13:45,30.17 sh66688,13:50,30.55 sh66688,13:55,30.75 sh66688,14:00,30.03 sh66688,14:05,29.61 sh66688,14:10,29.96 sh66688,14:15,30.79 sh66688,14:20,29.82 sh66688,14:25,30.09 sh66688,14:30,29.61 sh66688,14:35,29.88 sh66688,14:40,30.36 sh66688,14:45,30.88 sh66688,14:50,30.73 sh66688,14:55,30.76 sh88888,9:35,67.23 sh88888,9:40,66.56 sh88888,9:45,66.73 sh88888,9:50,67.43 sh88888,9:55,67.49 sh88888,10:00,68.34 sh88888,10:05,68.13 sh88888,10:10,67.35 sh88888,10:15,68.13 sh88888,10:20,69.05 sh88888,10:25,69.82 sh88888,10:30,70.62 sh88888,10:35,70.59 sh88888,10:40,70.40 sh88888,10:45,70.29 sh88888,10:50,70.53 sh88888,10:55,70.92

sh88888,11:00,71.13 sh88888,11:05,70.24 sh88888,11:10,70.37 sh88888,11:15,69.79 sh88888,11:20,69.73 sh88888,11:25,70.52 sh88888,11:30,71.23 sh88888,13:00,72.85 sh88888,13:05,73.76 sh88888,13:10,74.72 sh88888,13:15,75.48 sh88888,13:20,75.80 sh88888,13:25,76.74 sh88888,13:30,77.22 sh88888,13:35,77.12 sh88888,13:40,76.90 sh88888,13:45,77.80 sh88888,13:50,78.75 sh88888,13:55,78.30 sh88888,14:00,78.68 sh88888,14:05,78.99 sh88888,14:10,78.35 sh88888,14:15,78.37 sh88888,14:20,78.07 sh88888,14:25,78.80 sh88888,14:30,79.78 sh88888,14:35,79.72 sh88888,14:40,80.71 sh88888,14:45,79.92 sh88888,14:50,80.49 sh88888,14:55,80.44

最终结果与此类似：

id time price feature sh66688 10:05 27.09 波峰

sh66688 10:15 26.11 波谷

sh66688 10:25 27.49 波峰

sh66688 10:30 26.7 波谷

sh66688 10:40 28.26 波峰

sh66688 10:55 26.48 波谷

sh66688 11:00 27.41 波峰

sh66688 11:05 26.7 波谷

create table t2( id string,

time string, price double

)row format delimited fields terminated by ',';

load data local inpath "/root/data/t2.dat" into table t2;

3、写SQL

3.1、每个id浏览时长、步长 3.2、如果两次浏览之间的间隔超过30分钟，认为是两个不同的浏览时间；再求每个id浏览时长、步长

**备注：请仔细阅读计算规则**测试数据

id dt browseid

934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 17:02 https://[www.lagou.com/jobs/9590606.html?show=IEEE1FIJ3106A1H062HA](http://www.lagou.com/jobs/9590606.html?show=IEEE1FIJ3106A1H062HA) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 17:23 https://[www.lagou.com/jobs/998375.html?show=EC1JGEC8G3HJC82JIHCD](http://www.lagou.com/jobs/998375.html?show=EC1JGEC8G3HJC82JIHCD) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 17:09 https://[www.lagou.com/jobs/8205098.html?show=G75J62JE63JE3678G98F](http://www.lagou.com/jobs/8205098.html?show=G75J62JE63JE3678G98F) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 17:12 https://[www.lagou.com/jobs/2280203.html?show=1957CGIA1702C1J9F0GH](http://www.lagou.com/jobs/2280203.html?show=1957CGIA1702C1J9F0GH) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 17:31 https://[www.lagou.com/jobs/5921958.html?show=BJ9CJJ6F0GH0CDGGHCCB](http://www.lagou.com/jobs/5921958.html?show=BJ9CJJ6F0GH0CDGGHCCB) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 17:34 https://[www.lagou.com/jobs/2569616.html?show=G5472AH6G1I61CGF9HGC](http://www.lagou.com/jobs/2569616.html?show=G5472AH6G1I61CGF9HGC) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 18:46 https://[www.lagou.com/jobs/3892054.html?show=E771D8I4JJ0DE4DF575C](http://www.lagou.com/jobs/3892054.html?show=E771D8I4JJ0DE4DF575C) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 18:13 https://[www.lagou.com/jobs/9559088.html?show=3EG4D1108IC3B446G2EB](http://www.lagou.com/jobs/9559088.html?show=3EG4D1108IC3B446G2EB) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 18:14 https://[www.lagou.com/jobs/3381768.html?show=99B480535EC2FA31DJ92](http://www.lagou.com/jobs/3381768.html?show=99B480535EC2FA31DJ92) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 18:11 https://[www.lagou.com/jobs/5100510.html?show=JGH3HJ36D7GHIEHEEFI6](http://www.lagou.com/jobs/5100510.html?show=JGH3HJ36D7GHIEHEEFI6) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 18:20 https://[www.lagou.com/jobs/2814357.html?show=6A6799246J9J4B6IC9HI](http://www.lagou.com/jobs/2814357.html?show=6A6799246J9J4B6IC9HI) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 18:25 https://[www.lagou.com/jobs/2428943.html?show=697DI68E5F133A1DD96D](http://www.lagou.com/jobs/2428943.html?show=697DI68E5F133A1DD96D) 934e8bee978a42c7a8dbb4cfa8af0b4f 2020/05/28 18:41 https://[www.lagou.com/jobs/2790534.html?show=1C72FF96F549G4A458BI](http://www.lagou.com/jobs/2790534.html?show=1C72FF96F549G4A458BI) 32258fe7130844399859aec54b6df5ff 2020/05/28 03:47

https://[www.lagou.com/jobs/4319618.html?show=A9IB685E7CJ9DIAB2244](http://www.lagou.com/jobs/4319618.html?show=A9IB685E7CJ9DIAB2244) 32258fe7130844399859aec54b6df5ff 2020/05/28 03:33

https://[www.lagou.com/jobs/1944013.html?show=A70H86DF1EHG2E57H1HE](http://www.lagou.com/jobs/1944013.html?show=A70H86DF1EHG2E57H1HE) 32258fe7130844399859aec54b6df5ff 2020/05/28 03:21

https://[www.lagou.com/jobs/1013342.html?show=366DJ2870404637EC19D](http://www.lagou.com/jobs/1013342.html?show=366DJ2870404637EC19D) 32258fe7130844399859aec54b6df5ff 2020/05/28 03:54

https://[www.lagou.com/jobs/4952649.html?show=DGCC1FH06B69I9B1GA08](http://www.lagou.com/jobs/4952649.html?show=DGCC1FH06B69I9B1GA08) 32258fe7130844399859aec54b6df5ff 2020/05/28 03:48

https://[www.lagou.com/jobs/4427940.html?show=JAF2067192A1H53IJ00G](http://www.lagou.com/jobs/4427940.html?show=JAF2067192A1H53IJ00G) 32258fe7130844399859aec54b6df5ff 2020/05/28 03:08

https://[www.lagou.com/jobs/231554.html?show=I1J8G8075B7G5IDA326C](http://www.lagou.com/jobs/231554.html?show=I1J8G8075B7G5IDA326C) 32258fe7130844399859aec54b6df5ff 2020/05/28 05:09

https://[www.lagou.com/jobs/4799769.html?show=J7BGJ4B50GFHG4FEJCB6](http://www.lagou.com/jobs/4799769.html?show=J7BGJ4B50GFHG4FEJCB6) 32258fe7130844399859aec54b6df5ff 2020/05/28 05:26

https://[www.lagou.com/jobs/7373006.html?show=6J9JJ89EADI7DI0H82C3](http://www.lagou.com/jobs/7373006.html?show=6J9JJ89EADI7DI0H82C3) 32258fe7130844399859aec54b6df5ff 2020/05/28 05:11

https://[www.lagou.com/jobs/5766122.html?show=6J224ECEABC7C9I62763](http://www.lagou.com/jobs/5766122.html?show=6J224ECEABC7C9I62763)

32258fe7130844399859aec54b6df5ff 2020/05/28 05:34

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https://[www.lagou.com/jobs/7040422.html?show=0C78E264AHEADEJ26643](http://www.lagou.com/jobs/7040422.html?show=0C78E264AHEADEJ26643) 32258fe7130844399859aec54b6df5ff 2020/05/28 05:45

https://[www.lagou.com/jobs/2961967.html?show=A4702EJ6E5DJIA475AF1](http://www.lagou.com/jobs/2961967.html?show=A4702EJ6E5DJIA475AF1) de0096ad04ec4273b0462c7da7d79653 2020/05/28 07:04

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https://[www.lagou.com/jobs/9974358.html?show=7HJ4BIAGHD73F49G9JJC](http://www.lagou.com/jobs/9974358.html?show=7HJ4BIAGHD73F49G9JJC) de0096ad04ec4273b0462c7da7d79653 2020/05/28 17:56

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https://[www.lagou.com/jobs/4024837.html?show=JB27071067EGBE8D060C](http://www.lagou.com/jobs/4024837.html?show=JB27071067EGBE8D060C) 307d9dce3b7f495ab8ad6033f8c54930 2020/05/28 08:33

https://[www.lagou.com/jobs/7463120.html?show=D42J0IC234DIA481EF82](http://www.lagou.com/jobs/7463120.html?show=D42J0IC234DIA481EF82) 307d9dce3b7f495ab8ad6033f8c54930 2020/05/28 08:09

https://[www.lagou.com/jobs/8292709.html?show=H96I861CGIGIF571H2JJ](http://www.lagou.com/jobs/8292709.html?show=H96I861CGIGIF571H2JJ)

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https://[www.lagou.com/jobs/9159707.html?show=44EDBC5B43A444FH001C](http://www.lagou.com/jobs/9159707.html?show=44EDBC5B43A444FH001C) 307d9dce3b7f495ab8ad6033f8c54930 2020/05/28 18:10

https://[www.lagou.com/jobs/9532255.html?show=A1I8GI28GF0B14E97D64](http://www.lagou.com/jobs/9532255.html?show=A1I8GI28GF0B14E97D64) 307d9dce3b7f495ab8ad6033f8c54930 2020/05/28 18:51

https://[www.lagou.com/jobs/9785185.html?show=FIHCCA16AJDA32EC4332](http://www.lagou.com/jobs/9785185.html?show=FIHCCA16AJDA32EC4332) 307d9dce3b7f495ab8ad6033f8c54930 2020/05/28 18:56

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https://[www.lagou.com/jobs/1029027.html?show=F31BH181E6E8JJ4AD295](http://www.lagou.com/jobs/1029027.html?show=F31BH181E6E8JJ4AD295) 307d9dce3b7f495ab8ad6033f8c54930 2020/05/28 18:16

https://[www.lagou.com/jobs/9539487.html?show=47G414184H33E14DH159](http://www.lagou.com/jobs/9539487.html?show=47G414184H33E14DH159) 307d9dce3b7f495ab8ad6033f8c54930 2020/05/28 18:10

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https://[www.lagou.com/jobs/4658655.html?show=F87D3565JD253ED6FIHE](http://www.lagou.com/jobs/4658655.html?show=F87D3565JD253ED6FIHE) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 02:56

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https://[www.lagou.com/jobs/166497.html?show=B9B3GFIB5EIC9E32J5IJ](http://www.lagou.com/jobs/166497.html?show=B9B3GFIB5EIC9E32J5IJ) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 02:16

https://[www.lagou.com/jobs/3463570.html?show=20BBBA585JF22I953GBG](http://www.lagou.com/jobs/3463570.html?show=20BBBA585JF22I953GBG) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 02:23

https://[www.lagou.com/jobs/4105412.html?show=IAG945B35D5DA6F1E992](http://www.lagou.com/jobs/4105412.html?show=IAG945B35D5DA6F1E992) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 02:52

https://[www.lagou.com/jobs/6541296.html?show=47BH0G2A7IGFHIH61A85](http://www.lagou.com/jobs/6541296.html?show=47BH0G2A7IGFHIH61A85) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 02:45

https://[www.lagou.com/jobs/8701046.html?show=IDE79JG4DI0J6508F0HH](http://www.lagou.com/jobs/8701046.html?show=IDE79JG4DI0J6508F0HH) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 22:32

https://[www.lagou.com/jobs/9080852.html?show=5JA75D16G22BE0H881G2](http://www.lagou.com/jobs/9080852.html?show=5JA75D16G22BE0H881G2) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 22:47

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https://[www.lagou.com/jobs/4610986.html?show=G24C84DCG9FD5GFBFCEE](http://www.lagou.com/jobs/4610986.html?show=G24C84DCG9FD5GFBFCEE) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 22:54

https://[www.lagou.com/jobs/2566998.html?show=90BIIIIA346E50A5DA67](http://www.lagou.com/jobs/2566998.html?show=90BIIIIA346E50A5DA67) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 22:17

https://[www.lagou.com/jobs/7418962.html?show=9F3AB45F1C3HAH58B8B8](http://www.lagou.com/jobs/7418962.html?show=9F3AB45F1C3HAH58B8B8) 95273392ab1a4579914273cdd1f3a3ae 2020/05/28 22:16

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https://[www.lagou.com/jobs/3454023.html?show=FI5EICD1F25F005J3CJG](http://www.lagou.com/jobs/3454023.html?show=FI5EICD1F25F005J3CJG) 022f86d4533740ad914f233cbd9c4430 2020/05/28 22:13

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https://[www.lagou.com/jobs/2872366.html?show=9BCGBGHBE73IG5AF4569](http://www.lagou.com/jobs/2872366.html?show=9BCGBGHBE73IG5AF4569)

建表导入数据：

-- 建表语句

create table t3( id string, dt string,

browseid string

)row format delimited fields terminated by '\t';

-- 导入数据

load data local inpath "/root/data/t3.dat" into table t3;

计算规则说明：

id dt browseid id：唯一的用户id

dt：用户在这个时间点点击进入了一个页面

browseid：用户浏览了哪个页面

简化数据(以下为某个用户，在一天内的浏览记录)：

* 1. 、每个id浏览时长、步长

用户1的浏览时长 = 09:41 - 08:20 = 81分钟用户1的浏览步长 = count数 = 10次

* 1. 、如果两次浏览之间的间隔超过30分钟，认为是两个不同的浏览时间；再求每个id浏览时长、步长

|  |  |  |
| --- | --- | --- |
| 1 | 08:20 | 1.html |
| 1 | 08:23 | 2.html |
| 1 | 08:24 | 3.html |
| 1 | 08:40 | 4.html |
| 1 | 09:33 | 5.html |
| 1 | 09:40 | 6.html |
| 1 | 09:30 | 7.html |
| 1 | 09:36 | 8.html |
| 1 | 09:37 | 9.html |
| 1 | 09:41 | a.html |

|  |  |  |  |
| --- | --- | --- | --- |
| 用户1在用户1在  用户1在 | 8:40 - 09:30 的间隔超过了30。生产中认为：  08:20 - 08:40 浏览一次网站。这次浏览时长为20分钟，步长为4  09:30 - 09:41 又浏览一次网站。这次浏览时长为11分钟，步长为6 | | |
| 对于测试数据SQL1的结果：  934e8bee978a42c7a8dbb4cfa8af0b4f | | 104.0 | 13 |
| 对于测试数据SQL2的结果：  934e8bee978a42c7a8dbb4cfa8af0b4f | | 32.0 | 6 |
| 934e8bee978a42c7a8dbb4cfa8af0b4f | | 35.0 | 7 |