Table: Stadium

Each row of this table contains the visit date and visit id to the stadium with the number of people during the visit. No two rows will have the same visit_date, and as the id increases, the dates increase as well.

Write an SQL query to display the records with three or more rows with consecutive id's, and the number of people is greater than or equal to 100 for each.

Return the result table ordered by visit_date in ascending order.

Input

id	visit_date	visit_date
1	2017-01-01	10
2	2017-01-02	109
3	2017-01-03	150
4	2017-01-04	99
5	2017-01-05	145
6	2017-01-06	1455
7	2017-01-07	199
8	2017-01-09	188

Output

id	visit_date	visit_date
5	2017-01-05	145
6	2017-01-06	1455
7	2017-01-07	199
8	2017-01-09	188

Input

Output

id	visit_date	visit_date
1	2017-01-01	10
2	2017-01-02	109
3	2017-01-03	150
4	2017-01-04	99
5	2017-01-05	145
6	2017-01-06	1455
7	2017-01-07	199
8	2017-01-09	188

Select *
From stadium
Where people > 100;

id	visit_date	visit_date
2	2017-01-02	109
3	2017-01-03	150
5	2017-01-05	145
6	2017-01-06	1455
7	2017-01-07	199
8	2017-01-09	188

id	visit_date	visit_date
1	2017-01-01	10
2	2017-01-02	109
3	2017-01-03	150
4	2017-01-04	99
5	2017-01-05	145
6	2017-01-06	1455
7	2017-01-07	199
8	2017-01-09	188

Select s.*,

Row_Number() Over(Order By s.visit_date) rn

From stadium s Where people > 100;

id	visit_date	visit_date	rn
2	2017-01-02	109	1
3	2017-01-03	150	2
5	2017-01-05	145	3
6	2017-01-06	1455	4
7	2017-01-07	199	5
8	2017-01-09	188	6

Input

visit_date

2017-01-01

2017-01-02

2017-01-03

2017-01-04

2017-01-05

2017-01-06

2017-01-07

2017-01-09

visit_date

10

109

150

99

145

1455

199

188

id

Select s.*, Row_Number() Over(Order By s.visit_date) rn, (id - Row_Number() Over(Order By s.visit_date)) as grp From stadium s

Where people > 100;

	id	visit_date	visit_date	rn	grp
	2	2017-01-02	109	1	1
	3	2017-01-03	150	2	1
>	5	2017-01-05	145	3	2
	6	2017-01-06	1455	4	2
	7	2017-01-07	199	5	2
	8	2017-01-09	188	6	2

id	visit_date	visit_date
1	2017-01-01	10
2	2017-01-02	109
3	2017-01-03	150
4	2017-01-04	99
5	2017-01-05	145
6	2017-01-06	1455
7	2017-01-07	199
8	2017-01-09	188

```
With group_data As
(
    Select s.*,
        Row_Number() Over(Order By s.visit_date) rn,
        (id - Row_Number() Over(Order By s.visit_date)) as grp
        From stadium s
        Where people > 100
)
Select grp, count(1) as count
        From group_data
Group By grp;
```

grp	count
1	2
2	4

Input

id

6

id	visit_date	visit_date
1	2017-01-01	10
2	2017-01-02	109
3	2017-01-03	150
4	2017-01-04	99
5	2017-01-05	145
6	2017-01-06	1455
7	2017-01-07	199
8	2017-01-09	188

visit date

2017-01-01

2017-01-02

2017-01-03

2017-01-04

2017-01-05

2017-01-06

2017-01-07

2017-01-09

visit_date

10

109

150

99

145

1455

199

188

With group data As Select s.*, Row Number() Over(Order By s.visit_date) rn, (id - Row Number() Over(Order By s.visit date)) as grp From stadium s Where people > 100 Select grp From group data Group By grp Having count(1) >= 3;

With group_data As Select s.*, Row Number() Over(Order By s.visit date) rn, (id - Row Number() Over(Order By s.visit date)) as grp From stadium s Where people > 100 Select * From group data Where grp In (Select grp From group data Group By grp Having count(1) >= 3

Output





