# DBI PLF Select-Kommandos und Ergebnisse

## Tabellen

drop table caller cascade constraints;

drop table region cascade constraints;

drop table calls2017 cascade constraints;

drop sequence seq\_calls2017;

create sequence seq\_calls2017;

create table caller(

cnr integer primary key,

cnameTician varchar2(20));

create table region (region\_id\_ID integer primary key,

region\_name varchar2(20));

create table calls2017(call\_nr\_kat integer,

cnr integer references caller(cnr),

region\_id integer references region (region\_id\_ID),

duration integer,

call\_date date);

## Aufgabe

### Select Kommando

SELECT decode(grouping\_id(cnameTician),1,'==all c.',cnameTician) as caller, region\_name,

decode(grouping\_id(to\_char(call\_date,'MM')),1,'==all m.',to\_char(call\_date,'MM')) as month,

sum(duration) as duration

FROM calls2017 INNER JOIN caller ON calls2017.CNR = caller.CNR

INNER JOIN region on region\_id\_ID = calls2017.REGION\_ID

GROUP BY CUBE(cnameTician, region\_name, to\_char(call\_date,'MM'))

HAVING grouping\_id(cnameTician,to\_char(call\_date,'MM')) <> 4

ORDER BY caller, grouping\_id(cnameTician, region\_name),1;

### Ergebnisse

==all c. Great Britain 04 220

==all c. Austria 08 20

==all c. Great Britain 02 750

==all c. Great Britain ==all m. 1410

==all c. Germany 04 60

==all c. Germany 03 230

==all c. Germany ==all m. 290

==all c. Great Britain 05 340

==all c. Austria ==all m. 760

==all c. Austria 01 100

==all c. Austria 02 230

==all c. Austria 03 150

==all c. Austria 04 120

==all c. Austria 05 20

==all c. Austria 06 120

==all c. Great Britain 03 100

==all c. 08 20

==all c. 06 120

==all c. 05 360

==all c. 04 400

==all c. 03 480

==all c. 02 980

==all c. ==all m. 2460

==all c. 01 100

Dreistein Austria ==all m. 10

Dreistein Austria 03 10

Dreistein Germany ==all m. 120

Dreistein Germany 03 110

Dreistein Great Britain 05 340

Dreistein Great Britain ==all m. 760

Dreistein Great Britain 02 410

Dreistein Great Britain 03 10

Dreistein Germany 04 10

Dreistein ==all m. 890

Dreistein 02 410

Dreistein 03 130

Dreistein 04 10

Dreistein 05 340

Einstein Austria 03 130

Einstein Great Britain 03 50

Einstein Great Britain 02 40

Einstein Great Britain ==all m. 240

Einstein Germany 04 30

Einstein Austria ==all m. 570

Einstein Austria 01 100

Einstein Austria 02 230

Einstein Great Britain 04 150

Einstein Austria 04 110

Einstein Germany ==all m. 150

Einstein Germany 03 120

Einstein 04 290

Einstein 03 300

Einstein 02 270

Einstein 01 100

Einstein ==all m. 960

Vierstein Austria 03 10

Vierstein Great Britain 04 10

Vierstein Great Britain 03 20

Vierstein Great Britain 02 120

Vierstein Great Britain ==all m. 150

Vierstein Germany 04 20

Vierstein Germany ==all m. 20

Vierstein Austria 04 10

Vierstein Austria ==all m. 20

Vierstein 04 40

Vierstein 03 30

Vierstein 02 120

Vierstein ==all m. 190

Zweistein Great Britain 03 20

Zweistein Great Britain 02 180

Zweistein Austria 08 20

Zweistein Great Britain ==all m. 260

Zweistein Great Britain 04 60

Zweistein Austria ==all m. 160

Zweistein Austria 05 20

Zweistein Austria 06 120

Zweistein 02 180

Zweistein ==all m. 420

Zweistein 03 20

Zweistein 08 20

Zweistein 06 120

Zweistein 05 20

Zweistein 04 60

## Aufgabe

### Select Kommando

SELECT to\_char(call\_date, 'MM') as month, duration,

FIRST\_VALUE(duration) OVER (ORDER BY to\_char(call\_date, 'MM') ROWS BETWEEN 1 PRECEDING

AND 0 FOLLOWING ) AS "Duration former month",

to\_char(

duration -

FIRST\_VALUE(duration) OVER (ORDER BY to\_char(call\_date, 'MM') ROWS BETWEEN 1 PRECEDING

AND 0 FOLLOWING ),'999999.9') AS "change"

FROM calls2017 JOIN region on region.REGION\_ID\_ID = calls2017.REGION\_ID

where region\_name = 'Great Britain';

### Ergebnisse

02 10 10 .0

02 10 10 .0

02 10 10 .0

02 10 10 .0

02 10 10 .0

02 10 10 .0

02 10 10 .0

02 10 10 .0

02 100 10 90.0

02 100 100 .0

02 100 100 .0

02 100 100 .0

02 100 100 .0

02 100 100 .0

02 10 100 -90.0

02 10 10 .0

02 10 10 .0

02 10 10 .0

02 10 10 .0

02 10 10 .0

02 10 10 .0

03 10 10 .0

03 10 10 .0

03 10 10 .0

03 10 10 .0

03 10 10 .0

03 10 10 .0

03 10 10 .0

03 10 10 .0

03 10 10 .0

03 10 10 .0

04 10 10 .0

04 10 10 .0

04 10 10 .0

04 10 10 .0

04 10 10 .0

04 10 10 .0

04 10 10 .0

04 10 10 .0

04 10 10 .0

04 10 10 .0

04 10 10 .0

04 100 10 90.0

04 10 100 -90.0

05 100 10 90.0

05 240 100 140.0

## Aufgabe

### Select Kommando

CREATE VIEW MyView AS

SELECT to\_char(call\_date, 'MM') as month, duration

FIRST\_VALUE(duration) OVER (ORDER BY to\_char(call\_date, 'MM') ROWS BETWEEN 1 PRECEDING

AND 0 FOLLOWING ) AS "Duration former month",

to\_char(

duration -

FIRST\_VALUE(duration) OVER (ORDER BY to\_char(call\_date, 'MM') ROWS BETWEEN 1 PRECEDING AND 0 FOLLOWING ),'999999.9') AS "change"

FROM calls2017 JOIN region on region.REGION\_ID\_ID = calls2017.REGION\_ID where region\_name = 'Great Britain';

SELECT \* FROM MyView

WHERE "change" = (SELECT Max("change") FROM MyView);

DROP VIEW MyView;

### Ergebnisse

05 240 100 140.0

## Aufgabe

### Select Kommando

CREATE VIEW MyView AS

SELECT region\_name, cnameTician, duration,

DENSE\_RANK() OVER (ORDER BY duration DESC) AS rank from calls2017 c

join region r on c.REGION\_ID = r.REGION\_ID\_ID join caller ca on ca.CNR = c.CNR;

SELECT \* FROM MyView

WHERE rank <= 2;

DROP VIEW MyView;

### Ergenisse

Great Britain Dreistein 240 1

Austria Einstein 100 2

Great Britain Vierstein 100 2

Germany Dreistein 100 2

Great Britain Dreistein 100 2

Great Britain Dreistein 100 2

Great Britain Dreistein 100 2

Great Britain Dreistein 100 2

Great Britain Dreistein 100 2

Great Britain Zweistein 100 2

Austria Einstein 100 2

Austria Einstein 100 2

Austria Einstein 100 2

Germany Einstein 100 2

Great Britain Einstein 100 2

Austria Einstein 100 2