

SQL TIPS AND TRICKS



PART 25

Adv. SQL WINDOW FUNCTIONS

First_Value(), Last_Value()

MAYURI DANDEKAR

Example--

Result Grid									
Filter Rows: <input type="text"/>									
Export:  Wrap Cell Content: 									
	emp_id	emp_name	department_id	salary	manager_id	dept_name	gender	age	dob
▶	1	Ankit	100	11000	4	IT	female	24	2000-09-01
	2	mohit	100	16500	5	IT	female	27	1997-05-07
	3	vikas	100	22000	4	IT	female	30	1994-08-05
	4	rohit	200	30000	2	Marketing	male	30	1994-08-05
	5	mohit	200	12000	6	Marketing	male	24	2000-09-01
	6	agam	200	14400	2	Marketing	male	24	2000-09-01
	7	anam	200	14400	3	Marketing	male	24	2000-09-01
	8	ashish	200	6000	5	Marketing	male	20	2003-12-12
	9	vikas	300	15000	4	NULL	male	27	1997-05-07

```

3  -- first values
4  • SELECT *,
5    FIRST_VALUE(emp_name) OVER(PARTITION BY department_id ORDER BY age) AS youngest_emp
6  FROM emp;

```

Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 

	emp_id	emp_name	department_id	salary	manager_id	dept_name	gender	age	dob	youngest_emp
▶	1	Ankit	100	11000	4	IT	female	24	2000-09-01	Ankit
	2	mohit	100	16500	5	IT	female	27	1997-05-07	Ankit
	3	vikas	100	22000	4	IT	female	30	1994-08-05	Ankit
	8	ashish	200	6000	5	Marketing	male	20	2003-12-12	ashish
	5	mohit	200	12000	6	Marketing	male	24	2000-09-01	ashish
	6	agam	200	14400	2	Marketing	male	24	2000-09-01	ashish
	7	anam	200	14400	3	Marketing	male	24	2000-09-01	ashish
	4	rohit	200	30000	2	Marketing	male	30	1994-08-05	ashish
	9	vikas	300	15000	4	NULL	male	27	1997-05-07	vikas

```

8      -- last values
9  •    SELECT *,
10     LAST_VALUE(emp_name) OVER(PARTITION BY department_id ORDER BY age)AS oldest_emp
11     FROM emp;

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	emp_id	emp_name	department_id	salary	manager_id	dept_name	gender	age	dob	oldest_emp
▶	1	Ankit	100	11000	4	IT	female	24	2000-09-01	Ankit
	2	mohit	100	16500	5	IT	female	27	1997-05-07	mohit
	3	vikas	100	22000	4	IT	female	30	1994-08-05	vikas
	8	ashish	200	6000	5	Marketing	male	20	2003-12-12	ashish
	5	mohit	200	12000	6	Marketing	male	24	2000-09-01	anam
	6	agam	200	14400	2	Marketing	male	24	2000-09-01	anam
	7	anam	200	14400	3	Marketing	male	24	2000-09-01	anam
	4	rohit	200	30000	2	Marketing	male	30	1994-08-05	rohit
	9	vikas	300	15000	4	NULL	male	27	1997-05-07	vikas

12

13 • SELECT *,

14 LAST_VALUE(emp_name) OVER(PARTITION BY department_id ORDER BY age

15 ROWS BETWEEN CURRENT ROW AND UNBOUNDED FOLLOWING)AS oldest_emp

16 FROM emp

17 ORDER BY department_id ,age;

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

IA

	emp_id	emp_name	department_id	salary	manager_id	dept_name	gender	age	dob	oldest_emp
▶	1	Ankit	100	11000	4	IT	female	24	2000-09-01	vikas
	2	mohit	100	16500	5	IT	female	27	1997-05-07	vikas
	3	vikas	100	22000	4	IT	female	30	1994-08-05	vikas
	8	ashish	200	6000	5	Marketing	male	20	2003-12-12	rohit
	5	mohit	200	12000	6	Marketing	male	24	2000-09-01	rohit
	6	agam	200	14400	2	Marketing	male	24	2000-09-01	rohit
	7	anam	200	14400	3	Marketing	male	24	2000-09-01	rohit
	4	rohit	200	30000	2	Marketing	male	30	1994-08-05	rohit
	9	vikas	300	15000	4	NULL	male	27	1997-05-07	vikas

```

19 • SELECT *,
20     FIRST_VALUE(emp_name) OVER(PARTITION BY department_id ORDER BY age DESC) AS oldest_emp
21     FROM emp
22     ORDER BY department_id, age;

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	emp_id	emp_name	department_id	salary	manager_id	dept_name	gender	age	dob	oldest_emp
▶	1	Ankit	100	11000	4	IT	female	24	2000-09-01	vikas
	2	mohit	100	16500	5	IT	female	27	1997-05-07	vikas
	3	vikas	100	22000	4	IT	female	30	1994-08-05	vikas
	8	ashish	200	6000	5	Marketing	male	20	2003-12-12	rohit
	5	mohit	200	12000	6	Marketing	male	24	2000-09-01	rohit
	6	agam	200	14400	2	Marketing	male	24	2000-09-01	rohit
	7	anam	200	14400	3	Marketing	male	24	2000-09-01	rohit
	4	rohit	200	30000	2	Marketing	male	30	1994-08-05	rohit
	9	vikas	300	15000	4	NULL	male	27	1997-05-07	vikas



THANK YOU

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