

# SQL TIPS AND TRICKS

PART 11

## Master SQL Update Statement

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## Sample Example

TABLE – emp

	emp_id	emp_name	department_id	salary	manager_id
▶	1	Ankit	100	10000	4
	2	mohit	100	15000	5
	3	vikas	100	10000	4
	4	rojit	100	5000	2
	5	mohit	200	10000	6
	6	agam	200	12000	2
	7	anam	200	12000	3
	8	ashish	200	5000	5
	9	vikas	300	15000	4

TABLE – dept





Result Grid			Filter Rows
	dept_id	dept_name	
▶	100	IT	
	200	Marketing	

## Update with Where clause

```
37 • UPDATE emp SET salary = 20000 WHERE emp_id = 3;
```

```
38 • SELECT * FROM emp;
```

```
39
```

Result Grid					
				Filter Rows: <input type="text"/>	Export: 
					Wrap Cell Content: 
	emp_id	emp_name	department_id	salary	manager_id
▶	1	Ankit	100	10000	4
	2	mohit	100	15000	5
	3	vikas	100	20000	4
	4	rojit	100	5000	2
	5	mohit	200	10000	6
	6	agam	200	12000	2
	7	anam	200	12000	3
	8	ashish	200	5000	5
	9	vikas	300	15000	4



## Update multiple values

```
41 • UPDATE emp SET salary = 25000, department_id = 200 WHERE emp_id = 4;
```

```
42 • SELECT * FROM emp;
```


```
43
```

Result Grid





Filter Rows:

Export:



Wrap Cell Content:



	emp_id	emp_name	department_id	salary	manager_id
▶	1	Ankit	100	10000	4
	2	mohit	100	15000	5
	3	vikas	100	20000	4
	4	rojit	200	25000	2
	5	mohit	200	10000	6
	6	agam	200	12000	2
	7	anam	200	12000	3
	8	ashish	200	5000	5
	9	vikas	300	15000	4

## Update column with CASE WHEN

```
45 • UPDATE emp
46 SET
47     salary = CASE
48         WHEN department_id = 100 THEN salary * 1.1
49         WHEN department_id = 200 THEN salary * 1.2
50         ELSE salary
51     END;
52 • SELECT * FROM emp;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	emp_id	emp_name	department_id	salary	manager_id
▶	1	Ankit	100	11000	4
	2	mohit	100	16500	5
	3	vikas	100	22000	4
	4	rojit	200	30000	2
	5	mohit	200	12000	6
	6	agam	200	14400	2
	7	anam	200	14400	3
	8	ashish	200	6000	5
	9	vikas	300	15000	4

## Correcting Spelling Mistake

54 • **UPDATE** emp **SET** emp\_name = "rohit" **WHERE** emp\_id = 4;

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

	emp_id	emp_name	department_id	salary	manager_id
▶	1	Ankit	100	11000	4
	2	mohit	100	16500	5
	3	vikas	100	22000	4
	4	rohit	200	30000	2
	5	mohit	200	12000	6
	6	agam	200	14400	2
	7	anam	200	14400	3
	8	ashish	200	6000	5
	9	vikas	300	15000	4

## Update using Join

```
64 • ALTER TABLE emp ADD dept_name VARCHAR(20);
65   -- SET SQL_SAFE_UPDATES = 0;
66 • UPDATE emp e
67   INNER JOIN dept d ON e.department_id = d.dept_id
68   SET e.dept_name = d.dept_name;
69 • SELECT * FROM emp;
```

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



	emp_id	emp_name	department_id	salary	manager_id	dept_name
▶	1	Ankit	100	11000	4	IT
	2	mohit	100	16500	5	IT
	3	vikas	100	22000	4	IT
	4	rohit	200	30000	2	Marketing
	5	mohit	200	12000	6	Marketing
	6	agam	200	14400	2	Marketing
	7	anam	200	14400	3	Marketing
	8	ashish	200	6000	5	Marketing
	9	vikas	300	15000	4	NULL





## Interview Question – Swap Genders

```
78  -- add col gender and insert values
79 • ALTER TABLE emp ADD gender VARCHAR(20);
80 • UPDATE emp
81   SET gender = CASE WHEN department_id = 100 THEN "male" ELSE "female" END;
82  -- swap genders
83 • UPDATE emp
84   SET gender = CASE WHEN gender = "male" THEN "female" ELSE "male" END;
85 • SELECT * FROM emp;
```

Result Grid

  Filter Rows:

Export: 

Wrap Cell Content: 

	emp_id	emp_name	department_id	salary	manager_id	dept_name	gender
▶	1	Ankit	100	11000	4	IT	female
	2	mohit	100	16500	5	IT	female
	3	vikas	100	22000	4	IT	female
	4	rohit	200	30000	2	Marketing	male
	5	mohit	200	12000	6	Marketing	male
	6	agam	200	14400	2	Marketing	male
	7	anam	200	14400	3	Marketing	male
	8	ashish	200	6000	5	Marketing	male
	9	vikas	300	15000	4	NULL	male





# THANK YOU

MAYURI DANDEKAR