

SQL TIPS AND TRICKS

PART 16

USE CASE – Find Business Days excluding weekends and public holidays

MAYURI DANDEKAR

Example

Table-- tickets

	ticket_id	create_date	resolved_date
▶	1	2022-08-01	2022-08-03
	2	2022-08-01	2022-08-12
	3	2022-08-01	2022-08-16

Table-- holiday

	holiday_date	reason
▶	2022-08-11	RAKHI
	2022-08-15	INDEPENDENCE DAY

```
21 -- days between two dates
22 • SELECT *, DATEDIFF(resolved_date, create_date) as actual_days
23 FROM tickets;
```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

	ticket_id	create_date	resolved_date	actual_days
▶	1	2022-08-01	2022-08-03	2
	2	2022-08-01	2022-08-12	11
	3	2022-08-01	2022-08-16	15

```
25      -- week difference
26 •    SELECT *,
27      (WEEKOFYEAR(resolved_date) ) - (WEEKOFYEAR(create_date) ) as week_diff
28      FROM tickets;
29
30      -- week difference
```

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

	ticket_id	create_date	resolved_date	week_diff
▶	1	2022-08-01	2022-08-03	0
	2	2022-08-01	2022-08-12	1
	3	2022-08-01	2022-08-16	2

```
30 -- find working days including public holidays
31 • SELECT *,
32 DATEDIFF(resolved_date, create_date) -
33 2*((WEEKOFYEAR(resolved_date)) - (WEEKOFYEAR(create_date))) AS working_days
34 FROM tickets;
35
```

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

	ticket_id	create_date	resolved_date	working_days
▶	1	2022-08-01	2022-08-03	2
	2	2022-08-01	2022-08-12	9
	3	2022-08-01	2022-08-16	11

```

36  -- find public holiday
37  • SELECT ticket_id, create_date, resolved_date, COUNT(holiday_date) AS no_ofholidays
38  FROM tickets
39  LEFT JOIN holiday ON holiday_date BETWEEN create_date AND resolved_date
40  GROUP BY ticket_id, create_date, resolved_date ;
41
42  -- find business days excluding public holiday & weekends

```

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

	ticket_id	create_date	resolved_date	no_ofholidays
▶	1	2022-08-01	2022-08-03	0
	2	2022-08-01	2022-08-12	1
	3	2022-08-01	2022-08-16	2

```

42  -- find business days excluding public holiday n weekends
43  • SELECT *,DATEDIFF(resolved_date, create_date) as actual_days,
44      (WEEKOFYEAR(resolved_date) ) - (WEEKOFYEAR(create_date) ) as week_diff,
45      DATEDIFF(resolved_date, create_date) -
46      (2*((WEEKOFYEAR(resolved_date)) - (WEEKOFYEAR(create_date)))) ) - no_ofholidays AS business_days
47  FROM
48  (SELECT ticket_id, create_date, resolved_date, COUNT(holiday_date) AS no_ofholidays
49  FROM tickets
50  LEFT JOIN holiday ON holiday_date BETWEEN create_date AND resolved_date
51  GROUP BY ticket_id, create_date, resolved_date
52  ) A

```

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

	ticket_id	create_date	resolved_date	no_ofholidays	actual_days	week_diff	business_days
▶	1	2022-08-01	2022-08-03	0	2	0	2
	2	2022-08-01	2022-08-12	1	11	1	8
	3	2022-08-01	2022-08-16	2	15	2	9



THANK YOU

MAYURI DANDEKAR