### SQL TIPS AND TRICKS

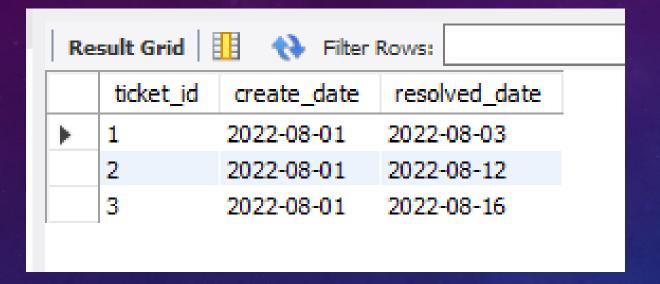
**PART 16** 

# USE CASE – Find Business Days excluding weekends and public holidays

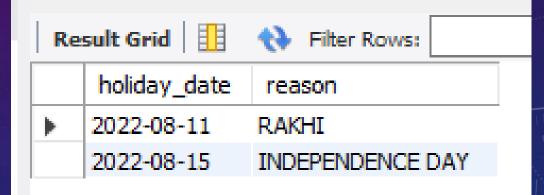
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#### Example

#### Table-- tickets



#### Table-- holiday



```
21
        -- days between two dates
22 • SELECT *, DATEDIFF(resolved_date, create_date) as actual_days
       FROM tickets;
23
\Delta A
Export: Wrap Cell Content: 1A
                                actual_days
  ticket_id create_date resolved_date
          2022-08-01
                    2022-08-03
          2022-08-01
                    2022-08-12
                                11
          2022-08-01
                                15
                    2022-08-16
```

```
25
       -- week difference
26 •
       SELECT *,
       (WEEKOFYEAR(resolved_date) ) - (WEEKOFYEAR(create_date) ) as week_diff
27
28
       FROM tickets;
29
 30
                                    Export: Wrap Cell Content: 1A
ticket_id create_date resolved_date week_diff
         2022-08-01
                  2022-08-03
         2022-08-01
                  2022-08-12
         2022-08-01
                   2022-08-16
```

```
30
       -- find working days including public holidays
31 •
       SELECT *,
       DATEDIFF(resolved_date, create_date) -
32
       2*((WEEKOFYEAR(resolved_date)) - (WEEKOFYEAR(create_date))) AS working_days
33
       FROM tickets;
34
35
                                     Export: Wrap Cell Content: IA
ticket id
          create date resolved date
                               working_days
         2022-08-01
                   2022-08-03
         2022-08-01
                   2022-08-12
         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
        FROM tickets
38
39
        LEFT JOIN holiday ON holiday_date BETWEEN create_date AND resolved_date
        GROUP BY ticket_id, create_date, resolved_date;
40
41
           find business days avaluding public baliday a yeakands
Result Grid
                                       Export: Wrap Cell Content: TA
            Filter Rows:
                                no_ofholidays
   ticket id
          create date | resolved date
          2022-08-01
                     2022-08-03
          2022-08-01
                     2022-08-12
          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,
       (WEEKOFYEAR(resolved date) ) - (WEEKOFYEAR(create date) ) as week diff,
44
       DATEDIFF(resolved_date, create_date) -
45
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
       ) A
52
Export: Wrap Cell Content: TA
```

		ticket_id	create_date	resolved_date	no_ofholidays	actual_days	week_diff	business_days
	<b>&gt;</b>	1	2022-08-01	2022-08-03	0	2	0	2
1		2	2022-08-01	2022-08-12	1	11	1	8
		3	2022-08-01	2022-08-16	2	15	2	9

## THANK YOU

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