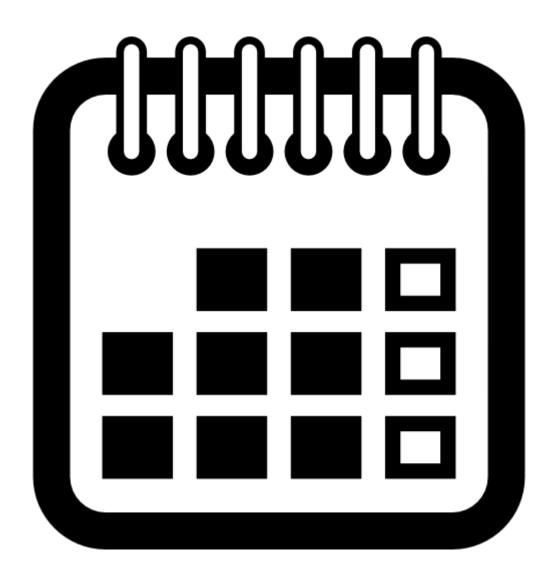
## **P8: DATES**



1. Select the last day of the present month.	3
2. Select the last day of the month three months before today.	3
3. Show the date of exercise 2 with format "Name_of_month day, year with 2 digits".	3
4. Write a query to convert 680001 days in a date.	3
6. Use CONVERT_TZ to convert the current date/time (UTC) to Panama.	3
7. Use CONVERT_TZ to convert the current date/time (UTC) to Sydney.	3
8. Subtract 3 hours 25 minutes to the current date/time using DATE_SUB.	4
9. Which day of the year (1, 2, 3, etc., 365) is today	4
10. Can you convert a String to a Date and/or Time?	4
12. Difference in days between the employee who started in the first place and the employee who started in the last place.	4
13. Select the dates inside the field EMPLOYEES.start_date that are Tuesday.	4
14. Select the data of the older employee in the enterprise.	5
15. Select the employees' name, surname and years working in our enterprise (order by those years descendent).	5
16. Write a query to show EMPLOYEES.start_date in three columns: year, month and day.	6
17. Write a query to show the employees that joined the enterprise in June.	6
18. Write the date of exercise 17 in the next format:	6
19. Write a query to get the year and number of employees who began working that year.	7
20. Write a query to get the maximum number of employees who started working in our enterprise in a year.	7
21. Write a query to get the year in which more employees joined our enterprise.	7
22. Show employees who are manager of other employees and the time in years that they are working in the enterprise.	8
23. Show employees who are manager of other employees working in the enterprise for more than 5 years.	8
24. Can you use BETWEEN keyword with dates.	8

1. Select the last day of the present month.

curdate provides us with the current date and last\_day will select the last day
select day(last day(curdate())) as last day;

```
∎ last_day ÷
1 31
```

2. Select the last day of the month three months before today.

Same as the previous exercise but we will add **interval 3 month** to provide us with the requested information

```
select day(last_day(curdate() - interval 3 month)) as last_day;

■■ last_day =

1 31
```

3. Show the date of exercise 2 with format "Name\_of\_month day, year with 2 digits".

With '% M% d,% y' we say the format

4. Write a query to convert 680001 days in a date.

```
select date(680001) as date;

1 2067-12-01
```

6. Use CONVERT\_TZ to convert the current date/time (UTC) to Panama.

7. Use CONVERT\_TZ to convert the current date/time (UTC) to Sydney.

8. Subtract 3 hours 25 minutes to the current date/time using DATE\_SUB.

205 minutes is 3 hours and 25 minutes.

```
select date_sub(now(), interval 205 minute );
```

9. Which day of the year (1, 2, 3, etc., 365) is today



10. Can you convert a String to a Date and/or Time?

we use str\_to\_date to transform a string into a date

```
select str_to_date('Sunday, March 21, 2021', '%W, %M %e, %Y') as
Date;
```

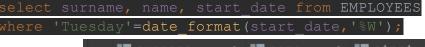
12. Difference in days between the employee who started in the first place and the employee who started in the last place.

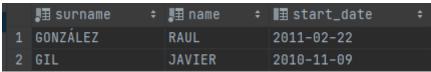
datediff returns the result of value1 and value2

```
select datediff(max(start_date),min(start_date)) as MyDay from
EMPLOYEES;
```



13. Select the dates inside the field EMPLOYEES.start\_date that are Tuesday.





14. Select the data of the older employee in the enterprise.

```
select * from EMPLOYEES
where start_date in (select min(start_date) from EMPLOYEES);

Finum: 用surname : 用name : 原manager: 用start_date : 用salary: 用commission: 原dept_num:原occu_code : 1 1000 PITT BRAD < null> 2004-01-01 1040 < null> 20 < null>
```

15. Select the employees' name, surname and years working in our enterprise (order by those years descendent).

```
#1
select name, surname, datediff(curdate(), start_date)/365 as Years
from EMPLOYEES
order by Years desc;
```

## #2

```
select name, surname, date_format(from_days(datediff(curdate(),
start_date)), '%y years %m months %d days') as Years from EMPLOYEES
order by Years desc;
```

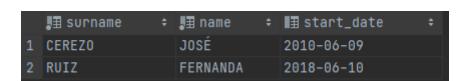
16. Write a query to show EMPLOYEES.start\_date in three columns: year, month and day.

select year(start\_date) as Year, month(start\_date) as Month,
day(start date) as Day from EMPLOYEES;



17. Write a query to show the employees that joined the enterprise in June.

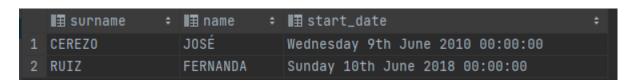
select surname, name, start\_date from EMPLOYEES
where 'June'=date\_format(start\_date,'%M');



18. Write the date of exercise 17 in the next format:

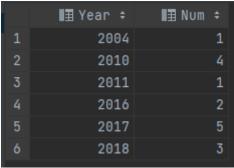
We give the format with '% W% D% M% Y% H:% i:% S'

select surname, name, date\_format(start\_date, '%W %D %M %Y
%H:%i:%S') as start\_date from EMPLOYEES
where 'June'=date\_format(start\_date,'%M');



19. Write a query to get the year and number of employees who began working that year.





20. Write a query to get the maximum number of employees who started working in our enterprise in a year.

```
select max(a.Num) as max_num
from (
select year(start_date) as Year, count(year(start_date)) as Num
from EMPLOYEES
group by Year) as a;

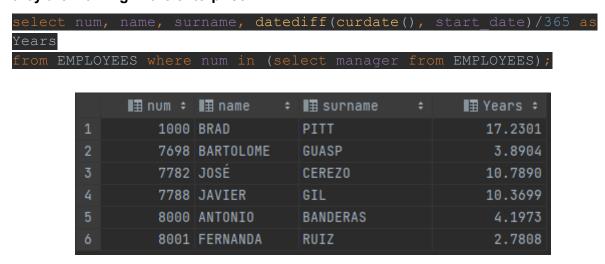
Imax_num =
1 5
```

21. Write a query to get the year in which more employees joined our enterprise.

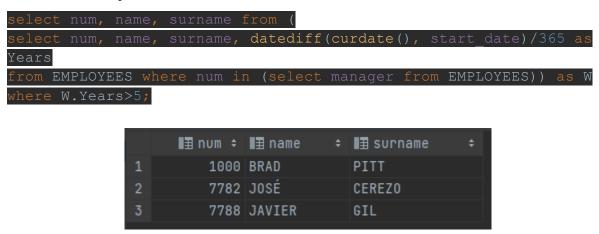
```
select a.Year from (
select year(start_date) as Year, count(year(start_date)) as Num
from EMPLOYEES
group by Year order by Num desc limit 1) as a;

### Year :
1 2017
```

22. Show employees who are manager of other employees and the time in years that they are working in the enterprise.



23. Show employees who are manager of other employees working in the enterprise for more than 5 years.



24. Can you use BETWEEN keyword with dates.



