ASSIGNMENT DB BUILT IN SQL FUNCTION

QUESTIONS

ORDER TABLE

```
--CREATE TABLE
□create table orders
 orderid int identity(1,1) primary key ,
 orderdate date,
 orderprice int,
 orderqty int,
 name varchar(10)
 --INSERT INTO TABLE
insert into orders values
 ('2005/12/22',160,2,'smith'),
 ('2005/08/10',190,2,'johnson'),
 ('2005/07/13',500,5,'baldwin'),
 ('2005/07/15',420,2,'smith'),
 ('2005/12/22',1000,4,'wood'),
 ('2005/10/02',820,4,'smith'),
 ('2005/11/03',2000,2,'baldwin')
 select * from orders
```

	E- Moodagoo				
	orderid	orderdate	orderprice	orderqty	name
1	1	2005-12-22	160	2	smith
2	2	2005-08-10	190	2	johnson
3	3	2005-07-13	500	5	baldwin
4	4	2005-07-15	420	2	smith
5	5	2005-12-22	1000	4	wood
6	6	2005-10-02	820	4	smith
7	7	2005-11-03	2000	2	baldwin

1. Count the number of orders made by a customer with CustName Smith

2. What is the 2nd largest order price

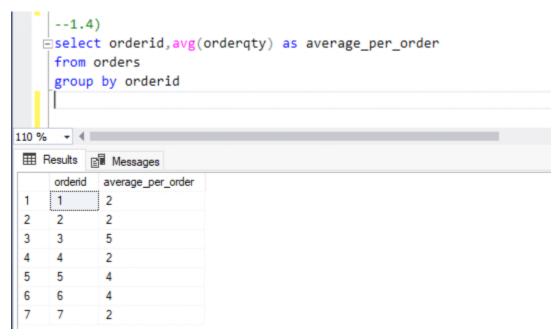
3. What if we are interested in the total value of all the orders?

```
--1.3)
-select sum(orderprice) as total
from orders

110 % 
Results Messages

total
1 5090
```

4. what is the average number of items per order?



5. what if I need average order price when the price is more than 200.



6. minimum price paid for any of the orders.

```
--1.6)
select min(orderprice) from orders

110 % - 4

Results Messages

(No column name)

1 160
```

7. maximum price paid for any of the orders



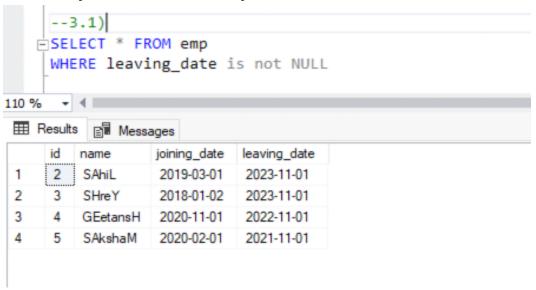
EMPLOYEE TABLE

```
--2)
   create table emp
     id int identity(1,1) primary key,
     name varchar(10) not null ,
     joining_date date,
     leaving date date
   insert into emp values
     ('vishal','2024/02/02',NULL),
     ('sahil','2019/03/01','2023/11/01'),
     ('shrey','2018/01/02','2023/11/01'),
     ('geetansh','2020/11/01','2022/11/01'),
     ('saksham','2020/02/01','2021/11/01')
     select * from emp
110 % - ◀ ■
Results Messages
     id name
                 joining_date
                           leaving_date
     1
       VIshaL
                 2024-02-02 NULL
     2 SAhiL
                 2019-03-01 2023-11-01
 3
     3 SHreY
                 2018-01-02 2023-11-01
     4 GEetansH 2020-11-01 2022-11-01
     5 SAkshaM 2020-02-01 2021-11-01
```

1. write a sql query to modify the emp_name in 'employee' table as the first 2 letters should be in upper case and last 1'letter in upper case and rest of the letters in lower case. eg emp_name is Gulrez then query should return the result as GUlreZ.



2. List all the employees from 'employee' table those have left the 3. organization and find the number time spent in the company in the format x Years, x Months, xDays. eg, if the joining date of a employee is 31/1/2017 and leaving date if 15/03/2019 then the query result should be 1year, 1month and 16 days.

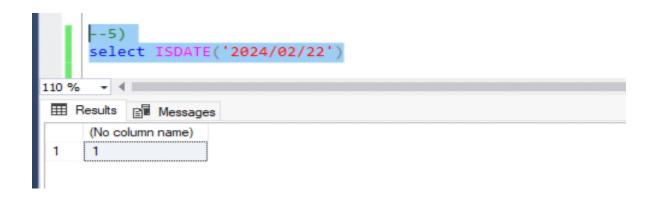


```
--3.2)
   ĖSELECT name ,
     (CASE
         WHEN leaving date IS NULL THEN (
        CONCAT (
                 FLOOR(DATEDIFF(YEAR, CAST(joining_date AS DATE), CAST(GETDATE() AS DATE))), ' years ',
                 DATEDIFF(MONTH, CAST (joining_date AS DATE), CAST (GETDATE() AS DATE))%12, ' months ',
                 FLOOR((DATEDIFF(DAY, CAST(joining_date AS DATE), CAST(GETDATE() AS DATE))%365.25)%12), ' days '
                 ) )
        ELSE (
        CONCAT (
                 FLOOR(DATEDIFF(YEAR, CAST(joining_date AS_DATE), CAST(leaving_date AS_DATE))), ' years ',
                 DATEDIFF(MONTH, CAST(joining_date AS DATE), CAST(leaving_date AS DATE))%12, ' months ',
                 FLOOR((DATEDIFF(DAY,CAST(joining_date AS DATE)),CAST(leaving_date AS DATE))%365.25)%12), ' days '
                 ) )
     END ) AS duration
     FROM emp
    --4)
   ĖSELECT * ,
110 % + 4 ||
Results Messages
          0 years 0 months 8 days
    VIshaL
     SAhiL
              4 years 8 months 5 days
              5 years 10 months 2 days
     GEetansH 2 years 0 months 4 days
     SAkshaM 1 years 9 months 9 days
```

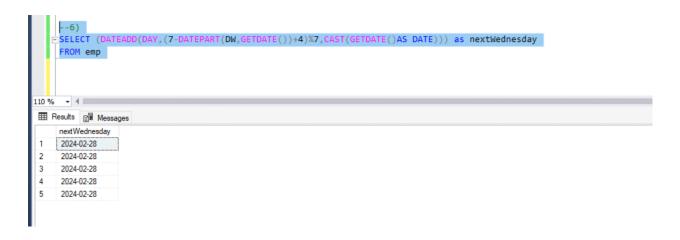
3. Find the numbers of days spent by a employee in the company with current date.

```
--4)
   ĖSELECT * ,
     (CASE
         WHEN leaving_date IS NULL THEN (DATEDIFF(DAY, CAST(joining_date AS DATE), CAST(GETDATE() AS DATE))))
         ELSE (DATEDIFF(DAY, CAST(joining_date AS DATE), CAST(leaving_date AS DATE)))
     END) AS duration
     FROM EMP
110 % - 4
Results Messages
     id name
                 joining_date leaving_date duration
    1 VIshaL
                 2024-02-02
                           NULL
                                      20
 2
     2 SAhiL
                 2019-03-01
                           2023-11-01
                                     1706
     3 SHreY
 3
                 2018-01-02 2023-11-01
                                     2129
    4 GEetansH 2020-11-01 2022-11-01
 5
    5 SAkshaM 2020-02-01 2021-11-01
                                     639
```

4. Which function checks whether the expression is a valid date or not?



5. Find next Wednesday for the given date?



6. Find week number of the month from the given date?

7. Find the week's Monday date from the given date?

