

--Date and Time Function

--getdate

select getdate() as Todays_date-- Todays date

select getdate() -1 as Yesterday_date --Yesterday date

select getdate() +1 as Tomorrow_date --Tomorrow date

select getdate() +2

--There are three different functions in SQL to modify or perform any date related task

--1.DATEDIFF()

--2.DATEPART()

--3.DATEADD()

--1.datediff() function

--The datediff function requires 3 argument(s).

--If we provide more than 3 arguments then it will through an exception

--(YY,MM,DD,HH,Minutes and seconds)

select DATEDIFF(YYYY, '1987/09/13', '2021/09/13')

select DATEDIFF(HH, getdate(), GETDATE()+2)

--syntax : DATEDIFF(interval, date1, date2)

```
--interval
--Year,YYYY, YY = Year
--Quarter,QQ, Q = Quarter
--Month - MM, M = Month
--DAYOFYEAR - day of the year
--DAY,dy,y = day
--WEEK,WW,WK = weekday
--HOUR,HH = hour
--MINUTE,MI,N = Minute
--SECOND,SS,S = Second
--MILLISECOND , MS = Millisecond
```

```
select datediff(MINUTE,'2015/01/01','2021/08/01')
```

```
--Q.HOW to calculate your age ?
```

```
select DATEDIFF(YY,'1992/08/15',getdate()) as Present_Age
```

```
-----
```

```
Create table Account_details (
ACCT_NUMBER int primary key identity(11112881,1),
ACCT_NAME varchar(20),
ACCT_OPEN_DATE date,
BRANCH Varchar(20))
```

```
insert into Account_details values ('Shubham','2015/12/09','MUMBAI')
insert into Account_details values ('Rihan','2016/01/12','Jaipur')
insert into Account_details values ('Sheetal','2017/08/11','GOA')
insert into Account_details values ('Priyanka','2017/01/01','Chennai')
insert into Account_details values ('Manik','2015/01/08','Agra')
insert into Account_details values ('Veena','2021/01/01','Patna')
insert into Account_details values ('Rohan','2019/07/01','Pune')
insert into Account_details values ('Laxmi',GETDATE(),'rohatak')
insert into Account_details values ('Jinal',GETDATE(),'Indore')
```

```
select * from Account_details
```

```
--Q.What is the age of your bank account
```

```
select ACCT_NUMBER, ACCT_NAME, DATEDIFF(YY,ACCT_OPEN_DATE,getdate())
as ACCOUNT_AGE from Account_details
```

--2.DATEPART

```
--This will allow you to display the date part
```

```
--Syntax : DATEPART(interval,date/column_name)
```

```
select getdate()
```

```
select DATEPART(HH,GETDATE())
```

```
select * from Account_details
```

```
select *,datepart(YY,ACCT_OPEN_DATE) as date from Account_details
where datepart(YY,ACCT_OPEN_DATE) =2021
```

```
---select * from Account_details where ACCT_OPEN_DATE in ('2021')
```

--if we want to validate date related column which is in terms of timestamp

--and it is very difficult to mention each and every time stamp related column with every date

--in order to avoid that we can use date part so it will consider with mentioned interval.

```
select count(*) from Account_details where DATEPART(YY,ACCT_OPEN_DATE)
in ('2021','2015')
```

```
select datepart(yy,getdate()) as years, datepart(MM,getdate()) as
months --- yers and months
```

--3.DATEADD()

--it will allow you to add the dates.

--it will accept three arguments.

--syntax : DATEADD(interval,value,date/datecolumn)

```
select DATEADD(DD,30,GETDATE()) as after30days
```