26 Mar 2024

create database march26th

use march26th

CREATE TABLE Sales

(Id int, Descr\_iption varchar(40), s\_price decimal(7,2))

alter table sales

add sales\_area varchar(30)

alter table sales

alter column descr\_iption varchar(50)

alter table sales

alter column id char(5)

alter table sales

drop column sales\_area

**27 Mar 2024**

use march26th

create table emp

(EID char(5), Name varchar(40), City varchar(30), Email varchar(30), Phone char(10), DOB date)

insert into emp(EID,Name,Email,Phone,DOB)

values('E1001','SagarThapliyal', 'st@gmail.com', '8980373093', '1989-07-26')

select\*from emp

insert into emp

values('E1002','SagarRana','Deharadun', 'st@gmail.com', '8980373093', '1999-07-26')

insert into emp

values('E1003','Rakesh Gupta','Deharadun', 'st@gmail.com', '8980373093', '1999-07-26'),

('E1004','Rakesh Gupta','Deharadun', 'st@gmail.com', '8980373093', '1999-07-26'),

('E1005','Rakesh Gupta','Deharadun', 'st@gmail.com', '8980373093', '1999-07-26'),

('E1006','Rakesh Gupta','Deharadun', 'st@gmail.com', '8980373093', '1999-07-26'),

('E1007','Rakesh Gupta','Deharadun', 'st@gmail.com', '8980373093', '1999-07-26')

use march26th

select\*from emp

update emp set City='Chennai'

where EID='E1001'

delete from emp where EID='E1001'

use march26th

select\*from EMP\_Sal

create database march4th

use march26th

use march23

Truncate table emp

select\*into Emp\_sal from march4th.dbo.EMP\_Sal

select\*from Emp\_sal

create database march23

select\*into Emp\_sal from march23.dbo.EMP1

select\*from EMP1

select EID,Name,City,Email,Phone,Doj from EMP1

select\*from EMP1 where City='Delhi'

select\*from EMP1

select\*from EMP1 where NAME like 'A%'

select\*from EMP1 where NAME like 'Ar%'

select\*from EMP1 where NAME like '%sharma'

select\*from EMP1 where ADDR2 like '%Dwarka'

select\*from EMP1 where EMAIL like '%@yahoo%'

select\*from EMP1 where NAME like '\_\_A%'

select\*from EMP1 where NAME like '\_A\_R%'

select\*from EMP1 where NAME like '[A\_G]%'

select\*from EMP1 where NAME like '[DG]%'

select\*from EMP1 where NAME like '[AN\_Z]%'

use march23

select\*from EMP1

select\*from EMP1 where NAME like '[AN\_Z]%'

select\*from EMP1 where NAME like '[^AN\_Z]%'

select\*from EMP1 where NAME like '[B\_M]%'

select 4+5 as addition, 4-2 as subraction, 5\*2 as product,5%2 as remainder, 10/2 as division

use march4th

select\*from EMP\_Sal

update EMP\_Sal set SALARY=SALARY+5000 where DESI='Manager'

select\*, ISNULL(SALARY, 0)\*12/100 as EPF, ISNULL(SALARY, 0)\*15/100 as HRA from EMP\_Sal

update EMP\_Sal set SALARY='6000' where SALARY='NULL'

select\*from EMP\_Sal

select\*, SALARY\*12/100 as EPF, SALARY\*15/100 as HRA from EMP\_Sal

select\*,Salary/12 as 'Monthly\_Sal' from EMP\_Sal

select\*,Salary/12 as 'Monthly\_Sal',SALARY%12 as 'remaining' from EMP\_Sal

use march23

select\*from EMP1

select\*from EMP1 where NAME like '[AN\_Z]%'

select\*from EMP1 where NAME like '[^AN\_Z]%'

select\*from EMP1 where NAME like '[B\_M]%'

select 4+5 as addition, 4-2 as subraction, 5\*2 as product,5%2 as remainder, 10/2 as division

use march4th

select\*from EMP\_Sal

update EMP\_Sal set SALARY=SALARY+5000 where DESI='Manager'

select\*, ISNULL(SALARY, 0)\*12/100 as EPF, ISNULL(SALARY, 0)\*15/100 as HRA from EMP\_Sal

update EMP\_Sal set SALARY='6000' where SALARY='NULL'

select\*from EMP\_Sal

select\*, SALARY\*12/100 as EPF, SALARY\*15/100 as HRA from EMP\_Sal

select\*,Salary/12 as 'Monthly\_Sal' from EMP\_Sal

select\*,Salary/12 as 'Monthly\_Sal',SALARY%12 as 'remaining' from EMP\_Sal

**28 March 2024**

use march26th

select \* from employ

select \* from employ where city='delhi'

select \* from employ where city!='delhi'

select \* from Emp\_Sal

select \* from Emp\_Sal where SALARY>'200000'

select \* from Emp\_Sal where SALARY<'200000'

select \* from Emp\_Sal where SALARY>='200000'

select \* from Emp\_Sal where SALARY>='245373'

select \* from Emp\_Sal where SALARY<='187200'

select \* from Emp\_Sal where SALARY!>'187200'

select \* from Emp\_Sal where SALARY!<'187200'

select \* from employ where Addr2='Dwarka' and city='delhi'

select \* from employ where Addr2='Dwarka' and city='Pune'

select \* from employ where city='Pune'

select \* from employ where Addr2='Dwarka'

select \* from employ where Addr2 not like '%Dwarka%'

select \* from employ where DOJ>'2012-01-01'

select \* from employ where DOB between '1990-01-01' and '01-jan-2012'

select \* from Emp\_Sal where SALARY between '152720' and '245373'

select \* from employ where EID between 'E1001' and 'E1100'

select \* from Emp\_Sal where DEPT in ('HR','ADMIN','OPS')

select \* from Emp\_Sal where SALARY is null

select \* from Emp\_Sal where SALARY is not null

select \* from employ where city in ('Delhi','Mumbai','Dehradun')

select \* from employ where city in ('Delhi','Mumbai','Dehradun') and EMAIL like '%Gmail%'

select distinct city from employ

select distinct dept from Emp\_Sal

select distinct DESI from Emp\_Sal

**Constraints**

use march26th

select \* from employ

select \* from emp

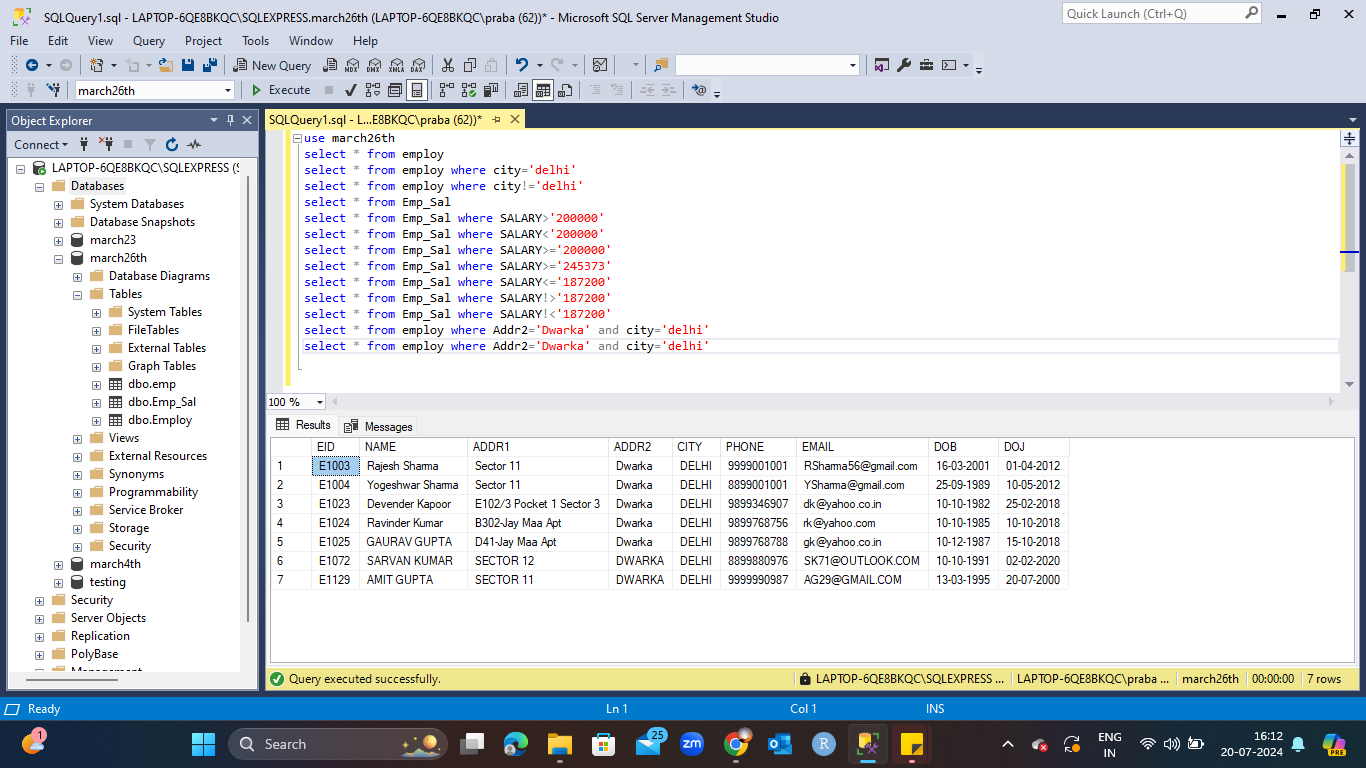
Alter Table Employ Alter column EID varchar(50) not null

Alter Table Employ add constraint P001 Primary Key (EID)

Alter Table Employ add constraint Un001 unique (EMAIL)

select \* from Employ where EID is null

Alter table employ drop constraint un001

****

update employ SET CITY=REPLACE(city,'ABCD','PUNE') where CITY like'%ABCD%'

update employ SET PHONE=REPLACE(PHONE,'PUNE','9999999987') where PHONE like'%PUNE%'

update employ SET EMAIL=REPLACE(EMAIL,'9999999987','RS@GMAIL.COM') where EMAIL like'%9999999987%'

update employ SET DOJ=REPLACE(DOJ,'14-01-1989.01-01-2019','01-01-2019') where DOJ like'%14-01-1989.01-01-2019%'

update employ SET DOJ=REPLACE(DOJ,'14-01-1989,01-01-2019','01-01-2019') where DOJ like'%14-01-1989,01-01-2019%'

update employ SET PHONE=REPLACE(PHONE,'9999999987','9899898909') where PHONE like'9999999987'

update employ SET EMAIL=REPLACE(EMAIL,'9899898909','AB66@OUTLOOK.COM') where EMAIL like'%9899898909%'

Constraints

use march26th

select \* from employ

select \* from emp

Alter Table Employ Alter column EID varchar(50) not null

Alter Table Employ add constraint P001 Primary Key (EID)

Alter Table Employ add constraint Un001 unique (EMAIL)

select \* from Employ where EID is null

Alter table employ drop constraint un001

update employ SET CITY=REPLACE(city,'ABCD','PUNE') where CITY like'%ABCD%'

update employ SET PHONE=REPLACE(PHONE,'PUNE','9999999987') where PHONE like'%PUNE%'

update employ SET EMAIL=REPLACE(EMAIL,'9999999987','RS@GMAIL.COM') where EMAIL like'%9999999987%'

update employ SET DOJ=REPLACE(DOJ,'14-01-1989.01-01-2019','01-01-2019') where DOJ like'%14-01-1989.01-01-2019%'

update employ SET DOJ=REPLACE(DOJ,'14-01-1989,01-01-2019','01-01-2019') where DOJ like'%14-01-1989,01-01-2019%'

update employ SET PHONE=REPLACE(PHONE,'9999999987','9899898909') where PHONE like'9999999987'

update employ SET EMAIL=REPLACE(EMAIL,'9899898909','AB66@OUTLOOK.COM') where EMAIL like'%9899898909%'

insert into employ values('E1181','Sameer raj','11 cross road','yellakunte','Bangalore',null,'dear@gmail.com','2000-01-26','2023-10-11')

alter table emp\_Sal add constraint df001 default 'temp' for dept

insert into Emp\_Sal(EID,DESI,SALARY)values ('E1180','Trainee',25000)

select\*from Emp\_Sal where EID='E1180'

use march26th

select \* from Employ

update employ SET PHONE=REPLACE(PHONE,'DELHI','9899267890') where PHONE like'%DELHI%'

update employ SET EMAIL=REPLACE(EMAIL,'9899267890','SSINGH@GMAIL.COM') where EMAIL like'%9899267890%'

update employ SET DOB=REPLACE(DOB,'SSINGH@GMAIL.COM','10-01-1990') where EMAIL like'%SSINGH@GMAIL.COM%'

update employ SET DOJ=REPLACE(DOJ,'10-01-1990,08-05-2020','08-05-2020') where EMAIL like'%10-01-1990,08-05-2020%'

update employ SET CITY=REPLACE(CITY,'SECTOR 3 DWARKA','SECTOR 3 DWARKA,DELHI') where CITY like'%SECTOR 3 DWARKA%'

update employ SET EMAIL=REPLACE(EMAIL,'9999009999','RRDDN@GMAIL.COM') where EMAIL like'%9999009999%'

update employ SET DOB=REPLACE(DOB,'RRDDN@GMAIL.COM','10-10-1994') where DOB like'%RRDDN@GMAIL.COM%'

update employ SET DOJ=REPLACE(DOJ,'10-10-1994,26-05-2020','26-05-2020') where DOJ like'%10-10-1994,26-05-2020%'

update employ SET CITY=REPLACE(CITY,'TEACHERS COLONY','TEACHERS COLONY,CHANDIGARH') where CITY like'%TEACHERS COLONY%'

update employ SET PHONE=REPLACE(PHONE,'CHANDIGARH','9899098123') where PHONE like'%CHANDIGARH%'

update employ SET EMAIL=REPLACE(EMAIL,'9899098123','RSINGH@GMAIL.COM') where EMAIL like'%9899098123%'

update employ SET DOB=REPLACE(DOB,'RSINGH@GMAIL.COM','13-05-1999') where DOB like'%RSINGH@GMAIL.COM%'

update employ SET DOJ=REPLACE(DOJ,'13-05-1999,20-05-2020','20-05-2020') where DOJ like'%13-05-1999,20-05-2020%'

update employ SET PHONE=REPLACE(PHONE,'9899898909','9811111120') where PHONE like'%9899898909%'

update employ SET EMAIL=REPLACE(EMAIL,'9811111120','AJAYM@GMAIL.COM') where EMAIL like'%9811111120%'

update employ SET DOB=REPLACE(DOB,'AJAYM@GMAIL.COM','15-05-1997') where DOB like'%AJAYM@GMAIL.COM%'

update employ SET DOJ=REPLACE(DOJ,'15-05-1997,21-05-2020','21-05-2020') where DOJ like'%15-05-1997,21-05-2020%'

update employ SET DOB=REPLACE(DOB,'AB66@OUTLOOK.COM','01-01-1998') where DOB like'%AB66@OUTLOOK.COM%'

update employ SET DOJ=REPLACE(DOJ,'01-01-1998,26-12-2019','26-12-2019') where DOJ like'%01-01-1998,26-12-2019'

update employ SET DOJ=REPLACE(DOJ,'10-01-1990,08-05-2020','08-05-2020') where DOJ like'%10-01-1990,08-05-2020'

update employ SET EMAIL=REPLACE(EMAIL,'9800245670','AJAY@GMAIL.COM') where EMAIL like'%9800245670%'

update employ SET DOB=REPLACE(DOB,'AJAY@GMAIL.COM','06-05-1985') where DOB like'%AJAY@GMAIL.COM%'

update employ SET DOJ=REPLACE(DOJ,'06-05-1985,11-05-2020','11-05-2020') where DOJ like'%06-05-1985,11-05-2020'

update employ SET PHONE=REPLACE(PHONE,'9811111120','9800245670') where PHONE like'%9811111120%'

update employ SET CITY=REPLACE(CITY,'RAJENDER NAGAR','RAJENDER NAGAR,DEHRADUN') where CITY like'%RAJENDER NAGAR%'

update employ SET PHONE=REPLACE(PHONE,'DEHRADUN','9899090123') where PHONE like'%DEHRADUN%'

update employ SET EMAIL=REPLACE(EMAIL,'9899090123','PG13@GMAIL.COM') where EMAIL like'%9899090123%'

update employ SET DOB=REPLACE(DOB,'PG13@GMAIL.COM','13-07-1994') where DOB like'%PG13@GMAIL.COM%'

update employ SET DOJ=REPLACE(DOJ,'13-07-1994,06-06-2020','06-06-2020') where DOJ like'%13-07-1994,06-06-2020%'

update employ SET EMAIL=REPLACE(EMAIL,'9811123210','AKETAG30@GMAIL.COM') where EMAIL like'%9811123210%'

update employ SET DOB=REPLACE(DOB,'AKETAG30@GMAIL.COM','10-06-1992') where DOB like'%AKETAG30@GMAIL.COM%'

update employ SET DOJ=REPLACE(DOJ,'10-06-1992,20-07-2020','06-06-2020') where DOJ like'%10-06-1992,20-07-2020%'

update employ SET PHONE=REPLACE(PHONE,'DEHRADUN','9899090123') where PHONE like'%DEHRADUN%'

update employ SET EMAIL=REPLACE(EMAIL,'9877676550','ARANA@GMAIL.COM') where EMAIL like'%9877676550%'

update employ SET DOB=REPLACE(DOB,'ARANA@GMAIL.COM','13-06-1995') where DOB like'%ARANA@GMAIL.COM%'

update employ SET DOJ=REPLACE(DOJ,'13-06-1995,25-07-2020','25-07-2020') where DOJ like'%13-06-1995,25-07-2020%'

select \* from Employ

update employ SET PHONE=9877676550 where PHONE IS NULL

update employ SET DOB=REPLACE(DOB,'ARANA@GMAIL.COM','13-06-1995') where DOB like'%ARANA@GMAIL.COM%'

SELECT PHONE, COUNT(\*) FROM Employ GROUP BY PHONE HAVING COUNT(\*) > 1;

UPDATE Employ

SET PHONE = NULL

WHERE PHONE IN (

SELECT PHONE

FROM (

SELECT PHONE

FROM Employ

GROUP BY PHONE

HAVING COUNT(\*) > 1

) AS DuplicatePhones

);

SELECT PHONE, COUNT(\*) FROM Employ GROUP BY PHONE HAVING COUNT(\*) > 1;

WITH NullPhones AS (

SELECT

EID,

ROW\_NUMBER() OVER (ORDER BY EID) AS rn

FROM

Employ

WHERE

PHONE IS NULL

)

UPDATE Employ

SET PHONE = CONCAT('555000', RIGHT(CAST((n.rn + 1000) AS VARCHAR), 4))

FROM Employ e

JOIN NullPhones n

ON e.EID = n.EID;

select \* from Employ

WITH DuplicatePhones AS (

SELECT

EID,

PHONE,

ROW\_NUMBER() OVER (PARTITION BY PHONE ORDER BY EID) AS rn

FROM

Employ

WHERE

PHONE = '5550001001'

)

UPDATE Employ

SET PHONE = '5550001044'

FROM Employ e

JOIN DuplicatePhones d

ON e.EID = d.EID

WHERE d.rn > 1;

alter table employ add constraint Un001 unique(phone)

create table test001

(Eid Char(5) not null primary key,Name Varchar(40) not null,City varchar(40) not null default 'Delhi',

Email varchar(30),salary int check(salary>=0), DOB date check (Dob between '1999-01-01' and '2000-12-31'))

select \* from test001

alter table test001 add constraint prk01 primary key(EID)

**29 March 2024**

Select distinct city from Employ

alter table employ add constraint Un001 unique(phone)

ALTER table employ add constraint ck001 check (DOB>='1980-04-01')

create table test001

(Eid Char(5) not null primary key,Name Varchar(40) not null,City varchar(40) not null default 'Delhi',

Email varchar(30),salary int check(salary>=0), DOB date check (Dob between '1999-01-01' and '2000-12-31'))

select \* from test001

alter table test001 add constraint prk01 primary key(EID)

Select distinct city from Employ

Select\*from employ where city='Delhi'

Select\*from employ where city='Noida'

delete from employ where city is null

Select city, count(EID) as 'no\_of\_employee'from Employ group by city

Select Dept,sum(salary) as 'Total\_sal' from Emp\_Sal group by Dept

select\*from Emp\_Sal

delete from Emp\_Sal where SALARY= 'null'

ALTER TABLE Emp\_Sal ALTER COLUMN SALARY INT;

Select Dept,sum(salary) as 'Total\_sal' from Emp\_Sal group by Dept

Select Dept,Desi, sum(salary) as 'Total\_sal' from Emp\_Sal group by Dept,DESI

Select Dept,sum(salary) as 'Total\_sal' from Emp\_Sal group by Dept

Select Dept,sum(salary) as 'Total\_sal' from Emp\_Sal group by Dept order by sum(SALARY) Desc

Select Dept,sum(salary) as 'Total\_sal' from Emp\_Sal group by Dept order by sum(SALARY) Asc

Select Dept,sum(salary) as 'Total\_sal' from Emp\_Sal group by Dept having sum(SALARY)>2500000 order by 'Total\_sal'

select dept,count(EID) as 'Total\_emp',Avg(salary) as 'Avg\_sal',sum(salary) as 'Total\_cost'

from Emp\_Sal where desi='manager' group by DEPT having sum(salary)>500000 order by 'total\_cost'

Select\*from employ

select\*from Emp\_Sal

Select E.Eid, Name, city, PHONE, Doj, Dept, Desi, Salary, Salary\*.12 as EPF, Salary\*.15 as HRA from Employ E

inner join Emp\_sal Es

on E.EID=ES.EID

select count (\*) from Employ

select count (\*) from Emp\_Sal

Select E.Eid, Name, city, PHONE, Doj, Dept, Desi, Salary, Salary\*.12 as EPF, Salary\*.15 as HRA from Employ E

left join Emp\_sal Es

on E.EID=ES.EID

Select E.Eid, Name, city, PHONE, Doj, Dept, Desi, Salary, Salary\*.12 as EPF, Salary\*.15 as HRA from Employ E

use march23

Select\*from [Sales \_ap]

Select\*from Sales\_mar

Select ORDERNUMBER, PRODUCTLINE, PRICEEACH FROM [Sales \_ap] union select ORDERNUMBER, PRODUCTLINE, PRICEEACH FROM Sales\_mar

Select ORDERNUMBER, PRODUCTLINE, PRICEEACH FROM [Sales \_ap] union select ORDERNUMBER, PRODUCTLINE, PRICEEACH FROM Sales\_mar

Select ORDERNUMBER, PRICEEACH, PRODUCTLINE FROM [Sales \_ap] union select PRICEEACH, PRODUCTLINE, ORDERNUMBER FROM Sales\_mar

Select ORDERNUMBER, PRICEEACH, PRODUCTLINE FROM [Sales \_ap]

/\*union All\*/

Select PRICEEACH, PRODUCTLINE, ORDERNUMBER FROM Sales\_mar

Select ORDERNUMBER, PRICEEACH, PRODUCTLINE FROM [Sales \_ap]

intersect

Select ORDERNUMBER, PRICEEACH, PRODUCTLINE FROM Sales\_mar

Select ORDERNUMBER, PRICEEACH, PRODUCTLINE FROM [Sales \_ap]

except

Select PRICEEACH, PRODUCTLINE, ORDERNUMBER FROM Sales\_mar

use march26th

select \* from Employ

create index citysrch on Employ(city)

select\*from employ where City='Delhi' and ADDR2 like '%dwarka%'

create index mulcityadd on employ(city,addr1,addr2)

select \* from employ where name like '%sharma'

select \* from employ where Eid='E1005'

select \* from employ where city='Delhi'

create view city\_vw

as

select \* from Employ where city='Delhi'

select\*from city\_vw

select \* from Employ

insert into city\_vw values('E1206','Kumar arora','11 clement street','Adhoiwaala','Delhi','898000322','rd@gmail','2000-01-01','2024-03-03')

delete from employ where eid='E1202'

alter view city\_vw

as select \* from employ where city='Delhi' with check option

create view discity

as

select distinct city from Employ

select \* from discity

insert into discity values('delhi')

create view multab

as select E.Eid,Name,City,Dept,Desi,Salary from Employ E inner join Emp\_Sal Es on E.Eid=Es.Eid

Select\*from multab

insert into multab values('E1208','Sameera Verma', 'Delhi', 'Admin', 'Manager', 78000)

select E.Eid,Name,City,Dept,Desi,Salary,

Select E.Eid, Name, city, PHONE, Doj, Dept, Desi, Salary, Salary\*.12 as EPF, Salary\*.15 as HRA, Salary\*32

as allowances from employ E inner join Emp\_Sal Es on E.EID=Es.Eid

Select sum(salary) as'total\_sal' from Emp\_Sal

Select sum(salary) as'total\_sal',avg(salary)as avgsal,count(EID) as no\_ofemps,Min(salary) as min\_sal,Max(salary)as max\_sal from emp\_sal

Select rand() as random\_Valeo\_1

select sqrt(9),square(3)

Select STDEVP(salary) from Emp\_Sal

Select Min(Name),Max(Name) from Employ

Select Min(Salary),Max(Salary) from Emp\_Sal

insert into employ values('E1181','Sameer raj','11 cross road','yellakunte','Bangalore',null,'dear@gmail.com','2000-01-26','2023-10-11')

alter table emp\_Sal add constraint df001 default 'temp' for dept

insert into Emp\_Sal(EID,DESI,SALARY)values ('E1180','Trainee',25000)

select\*from Emp\_Sal where EID='E1180'

select \* from Employ

select\*from Emp\_Sal

Select\*,left(name,1) as firstinitial\_fn from Employ

Select\*,left(name,1) as firstinitial\_fn, len(name) as length\_c,CHARINDEX(' ',Name) spcposi,len(name)-charindex(' ',name),\*from employ

Select\*,left(name,1) as firstinitial\_fn, len(name) as length\_c,CHARINDEX(' ',Name) spcposi,len(name)-charindex(' ',name),right(name,5),\*from employ

Select\*from employ

Select\*,left(name,1) as firstinitial\_fn from Employ

Select\*,left(name,1) as firstinitial\_fn, len(name) as length\_c,CHARINDEX(' ',Name) spcposi,len(name)-charindex(' ',name),\*from employ

Select\*,left(name,1) as firstinitial\_fn, len(name) as length\_c,CHARINDEX(' ',Name) spcposi,len(name)-charindex(' ',name),right(name,5),\*from employ

Select\*,Concat(left(name,1),

left(right(name,len(name)-charindex(' ',name)),1),right(Rtrim(EID),4),'@learnbay.co') as corpemail from employ

Select Avg(Salary) from Emp\_Sal

Select\*from Emp\_Sal

Select\*,Avg(Salary) over (order by Eid) as running\_avg from Emp\_Sal

Select\*,Avg(Salary) over (partition by dept order by eid) as running\_avg from Emp\_Sal

use march4th

Select\*from EMP\_Sal

Select\*,rank() over (order by Salary desc) as ranking from EMP\_Sal

Select\*,rank() over (order by Salary desc) as ranking,Dense\_rank() over (order by Salary desc) as Dranking from EMP\_Sal

Select\*,ROW\_NUMBER() over (partition by dept order by salary desc) as 'Sal\_order' from EMP\_Sal

use march23

Select\*from [Sales \_ap]

Select\*,LAG(SALES) over (order by ORDERNUMBER) as prev\_value from [Sales \_ap]

Select\*,LAG(SALES) over (order by ORDERNUMBER) as prev\_value,LEAD(SALES)

over (order by ORDERNUMBER) as next\_value from [Sales \_ap]

Select GETDATE() as currentdate

Select dateadd(Day,100,getdate()) daysaftr100

Select dateadd(M,5,getdate()) daysaftr5mnths

Select\*from employ

Select\*,dateadd(d,90,DOJ) as confdate from employ

Select\*,DATEDIFF(YY,DOJ,Getdate()) as tenure from employ where DATEDIFF(YY,DOJ,Getdate())>=10

SELECT COLUMN\_NAME, DATA\_TYPE

FROM INFORMATION\_SCHEMA.COLUMNS

WHERE TABLE\_NAME = 'employ' AND COLUMN\_NAME = 'DOJ';

SELECT DOJ

FROM employ

WHERE TRY\_CONVERT(DATE, DOJ) IS NULL;

SELECT \*,

DATEDIFF(YEAR, TRY\_CONVERT(DATE, DOJ), GETDATE()) AS tenure

FROM employ

WHERE TRY\_CONVERT(DATE, DOJ) IS NOT NULL

AND DATEDIFF(YEAR, TRY\_CONVERT(DATE, DOJ), GETDATE()) >= 10;

Select\*,DATEDIFF(YY,DOJ,Getdate()) as age\_of\_emp from employ where DATEDIFF(YY,DOB,Getdate())>=35

SELECT \*,

DATEDIFF(YEAR, TRY\_CONVERT(DATE, DOB), GETDATE()) AS age\_of\_emp

FROM employ

WHERE TRY\_CONVERT(DATE, DOB) IS NOT NULL

AND DATEDIFF(YEAR, TRY\_CONVERT(DATE, DOB), GETDATE()) >= 10;

Select year(getdate()) as 'year',Month (getdate()) as 'Month',day(getdate()) as 'day'

SELECT \*FROM employ

WHERE MONTH(CONVERT(DATE, DOB, 105)) = 5;

SELECT \*

FROM employ

WHERE MONTH(TRY\_CONVERT(DATE, DOB, 105)) = 5 AND TRY\_CONVERT(DATE, DOB, 105) IS NOT NULL;

SELECT \*

FROM employ

WHERE Year(TRY\_CONVERT(DATE, DOJ, 105)) = 2012 AND TRY\_CONVERT(DATE, DOJ, 105) IS NOT NULL;

The 105 style code corresponds to the dd-mm-yyyy format. so why 105 what is the logic

###### **ChatGPT said:**

ChatGPT

The style code 105 is used with the CONVERT or TRY\_CONVERT function in SQL Server to specify the date format when converting a string to a date.

### **Logic Behind Style Codes**

In SQL Server, when you're converting a string to a date, the system needs to understand the format of the date string. Since different countries use different date formats (e.g., mm-dd-yyyy in the US, dd-mm-yyyy in many European countries), the style code tells SQL Server what format to expect.

* **105**: This style code tells SQL Server that the date string is in the format dd-mm-yyyy (day, month, year).

### **Why Use 105?**

You use 105 specifically when your date strings are in the dd-mm-yyyy format. For example, 01-09-1990 would be interpreted as September 1, 1990, using this style code.

If you use a different style code, SQL Server might interpret the date incorrectly or fail to convert it at all.

### **Example of Style Codes:**

* **101**: mm/dd/yyyy (US)
* **103**: dd/mm/yyyy (British/French)
* **104**: dd.mm.yyyy (German)
* **105**: dd-mm-yyyy (Italian)

Using the correct style code ensures that SQL Server interprets the date string correctly, preventing errors like the one you encountered.

4o

##### **You said:**

then 112 for yyyymmdd?

###### **ChatGPT said:**

ChatGPT

Yes, that's correct! The style code 112 is used for the yyyymmdd format. In SQL Server, this style code helps interpret date strings in the format yyyy-mm-dd when converting them to date types.

Here's a quick summary:

* **112**: yyyymmdd (e.g., 19900901 for September 1, 1990)

### **Example Usage**

If you have a date string in the yyyymmdd format and you want to convert it to a DATE type, you would use:

sql

Copy code

SELECT CONVERT(DATE, '19900901', 112);

This will correctly interpret 19900901 as September 1, 1990.

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##### **You said:**

which style codes are these

###### **ChatGPT said:**

ChatGPT

In SQL Server, date and time style codes are used to specify the format for date and time conversions. Here are some commonly used style codes:

* **101**: U.S. format (mm/dd/yyyy)  
  Example: 09/01/1990
* **102**: ANSI format (yyyy.mm.dd)  
  Example: 1990.09.01
* **103**: British/French format (dd/mm/yyyy)  
  Example: 01/09/1990
* **104**: German format (dd.mm.yyyy)  
  Example: 01.09.1990
* **105**: Italian format (dd-mm-yyyy)  
  Example: 01-09-1990
* **106**: dd mon yyyy  
  Example: 01 Sep 1990
* **107**: Mon dd, yyyy  
  Example: Sep 01, 1990
* **108**: hh:mm:ss  
  Example: 14:30:00
* **110**: U.S. format (mm-dd-yyyy)  
  Example: 09-01-1990
* **112**: ISO format (yyyymmdd)  
  Example: 19900901

These style codes can be used with the CONVERT function to specify how dates should be interpreted or formatted when converting between different types or formats.