

SQL第一期学习

--数据库表查询

```
--1.Distinct companycode
select distinct top 10 CompanyCode from NSBC.dbo.ServiceProvider with(nolock)
select distinct top 10 CompanyCode,BusinessUnitName from NSBC.dbo.ServiceProvider with(nolock)
```

```
--2.Group By:
/*Group byCOUNTSUM
AVG count()    sum()  avg()  max()  min()
*/
select top 100 CompanyCode,count(CompanyCode) from NSBC.dbo.ServiceProvider with(nolock)
group by CompanyCode
select top 100 CompanyCode,count(CompanyCode) from NSBC.dbo.ServiceProvider with(nolock)
group by CompanyCode
order by count(CompanyCode) desc
```

```
--3.Group By/having :
/*HavingWhere:
wherewherewhere
having
*/
select top 100 CompanyCode,count(CompanyCode) from NSBC.dbo.ServiceProvider with(nolock)
group by CompanyCode
having count(CompanyCode)>1
select top 100 CompanyCode,count(CompanyCode) from NSBC.dbo.ServiceProvider with(nolock)
where ServiceType='I'
group by CompanyCode
having count(CompanyCode)>1
```

```
--4.Null:
/*NULL, NULL
NULL,NULLis null is not null ==*/
select top 1000 * from NSBC.dbo.ServiceProvider with(nolock)    --null
where CompanyCode is null
select top 1000 * from NSBC.dbo.ServiceProvider with(nolock)    --''
where CompanyCode = ''
select top 1000 * from NSBC.dbo.ServiceProvider with(nolock)    --null
where isnull(BusinessUnitName,'')=''
--
declare @A char(1)
declare @B char(1)

SET @A=NULL
SET @B=NULL

IF @A<>'C'    --<>
SET @A='R'    --

SET @B=CASE
    WHEN @B='C' THEN @B    --
    ELSE 'R'
END

SELECT @A AS A,@B AS B
--A=NULL B=R    null
```

```
--5 TRIM/LTRIM/RTRIM
select ltrim(' test ') --
select rtrim(' test ') --
select ltrim(rtrim(' test ')) --
```

```
--6.charindex
/* charindex(expression1,expression2,start_location)
expression1 expression2 start_location1
expression2expression1expression1expression20*/
select CHARINDEX('BCD', 'abcdafg')
select CHARINDEX('m', 'abcdafg')
select CHARINDEX('a', 'abcdafg',3)
select CHARINDEX('m', 'abcdafg',3)
```

```
--7.cast/convert
/*2*/
--7.1:convert(type,expression) type
select top 10 * from NSBC.dbo.ServiceProvider a with(nolock)
inner join NSBC.dbo.BillingClientAndServiceProvider b with(nolock)
on convert(char(20),a.ServiceProviderID)=b.ServiceProviderID
--7.2:castexpression as typetype
select top 10 * from NSBC.dbo.ServiceProvider a with(nolock)
inner join NSBC.dbo.BillingClientAndServiceProvider b with(nolock)
on cast(a.ServiceProviderID as char(20))=b.ServiceProviderID
```

```
--8.substring(expression,start,length)
/* substring(,,)*/
select top 10 substring(ServiceProviderName,5,20), * from NSBC.dbo.ServiceProvider with(nolock)
where substring(ServiceProviderName,1,6)='Newegg'
```

```
--9.join (inner join/full join/left join/right join)
/*inner join:
full join:
left join:
right join:*/
select top 10 * from NSBC.dbo.ServiceProvider a with(nolock)
inner join NSBC.dbo.BillingClientAndServiceProvider b with(nolock)
on a.ServiceProviderID =b.ServiceProviderID
select top 10 * from NSBC.dbo.ServiceProvider a with(nolock)
full join NSBC.dbo.BillingClientAndServiceProvider b with(nolock)
on a.ServiceProviderID=b.ServiceProviderID
select top 10 * from NSBC.dbo.ServiceProvider a with(nolock)
left join NSBC.dbo.BillingClientAndServiceProvider b with(nolock)
on a.ServiceProviderID=b.ServiceProviderID
select top 10 * from NSBC.dbo.ServiceProvider a with(nolock)
right join NSBC.dbo.BillingClientAndServiceProvider b with(nolock)
on a.ServiceProviderID =b.ServiceProviderID
```

```

--11.
--1.
use db_sqlserver  --database name
go
create table testtable (
    [id] [int] NOT NULL,
    [name] [char](50) NULL,
    [age] [int] NULL
)
--2.
alter table act.dbo.UT_ASR_InternalBilling_InvoiceTransaction add ServiceId [int] NULL
alter table act.dbo.UT_ASR_InternalBilling_InvoiceTransaction ALTER COLUMN [ServiceCode] [varchar](50) NULL

--3.real item
SELECT TOP 10 * FROM NSVC2005.dbo.RMATransaction WITH (NOLOCK) WHERE RMANUMBER = 1200065660
AND ItemNumber LIKE '[0-9]%'

```

--XML : /*xml是一种数据结构，前后端数据传递，要么是json，要么是xml*/

测试关注：前后端数据传递正确性和完整性

```

--12.XML
--1.namespace
SELECT top 10 * from ssb3.SAPFICO0008.Success_Record with (nolock)
WHERE Message_Body.exist(' (/*:CustomerInvoice[@InvoiceNumber="MK60221859"] ) ')=1

SELECT top 10 * from ssb3.WMStoSAP.Success_Record WITH (NOLOCK)
WHERE Message_Body.exist(' (/*:Publish/*:Node/*:RMASyncMessage/*:Body/*:RMACollection/*:RMADData/*:RmaMaster/*:
RMANumber[contains(., "396781120") ] ) ')=1
select top 10 s.RowID ,
m.c.value('.', 'varchar(200)') AS id
from SSB.Legacy_MerchantInfo.Success_Record as s with(nolock)
OUTER APPLY s.Message_Body.nodes(' /*:Publish/*:Node/*:B2BMerchantInfo/*:Body/*:MerchantID') AS m ( c )

--2.namespace
select top 10 * from svc2005.DBO.RMA_RepairSOCreationRequest_XMLInfo with(nolock) where
TaxMsgXml.exist(' (NETaxMessage/Request/TaxRequest/Customer/CustomerNumber[contains(., "7474862") ] ) ')=1

select top 10 * from svc2005.DBO.RMA_RepairSOCreationRequest_XMLInfo with(nolock) where
TaxMsgXml.exist(' (//Request/TaxRequest/Customer/CustomerNumber[contains(., "7474862") ] ) ')=1

```