

### Select Statement

#### Select Statements

##### show the whole table

```
Select * from <TableName>
Select * from Sales.salesperson;
```

##### Returns the total number of rows that match our search.

```
Select count (*) From Person.Person;
```

##### Top 10

```
Select top 10 * From Person.Address
```

##### bottom 10

```
Select top 10 * From person.Address
order by AddressID desc
```

### Select Statement

#### Aggregate Functions

##### SUM

```
Select sum(TotalDue) From Sales.SalesOrderHeader;
```

##### AVERAGE

```
select avg(TotalDue) from Sales.SalesOrderHeader;
```

##### Largest Value

```
select max(TotalDue) from Sales.SalesOrderHeader;
```

##### Smallest Value

```
select min(TotalDue) from Sales.SalesOrderHeader;
```

### Select Statement

#### other tips

##### Multiple values displayed

```
select Count(TotalDue) as NumOfOrders
,min(TotalDue) as [Min], max(TotalDue) as [Max],
sum(TotalDue) as [TOTAL], AVG(TotalDue) as Average
from Sales.SalesOrderHeader
Where PurchaseOrderNumber is not Null;
```

### Distinct

#### Distinct Clause

```
Select Distinct [Name], CurrencyCode from
sales.ss_currency
select * from sales.ss_currency
```

### Joins

#### Inner Joins - (intersecting data)

##### INNER JOINS

```
Select sod.productID as [Product], soh.SalesOrderNumber as [OrderNumber],
soh.CustomerID as [Customer], SOH.TotalDue as [TOTAL]
from sales.SalesOrderDetail SOD
inner join Sales.SalesOrderHeader SOH
on SOD.SalesOrderID = SOH.SalesOrderID;
```

### Joins

#### Left Joins

##### LEFT Join

```
Select PP.BusinessEntityID, PP.FirstName as [FirstName],
PP.LastName as [Surname], PPH.PhoneNumber as [PhoneNumber]
from Person.Person PP
left join Person.PersonPhone PPH
on PP.BusinessEntityID = PPH.BusinessEntityID
where PPH.BusinessEntityID is NULL;
```

### Joins

#### Left Outer Join

##### LEFT Outer Join

```
Select PP.BusinessEntityID, PP.FirstName as [FirstName],
PP.LastName as [Surname], PPH.PhoneNumber as [PhoneNumber]
from Person.Person PP
left outer join Person.PersonPhone PPH
on PP.BusinessEntityID = PPH.BusinessEntityID
order by pp.BusinessEntityID
```

### Having Clause

```
select CurrencyCode, Name from sales.ss_currency
group by CurrencyCode, Name
having count (*)>1
```

### Acending / Decending

### Order BY Decending

### Update

#### Update multiple columns

```
select * from sales.SS_Currency
Update sales.SS_Currency
Set Name = 'Shilpa Dollar'
Where CurrencyCode = 'SHD'
or currencyCode ='BKS';
select * from sales.SS_Currency
Where CurrencyCode = 'SHD'
or currencyCode ='BKS';
```

### Change Tables

#### COPY TABLE

```
Select * into new_table from old_table
Select * into sales.SS_Currency from
sales.Currency
```

#### DROP - delete contents of table

```
drop table sales.SS_salesperson_Own
```

### Tables

#### Create Table

```
Create Table sales.SS_salesperson_Own
(SalesPersonID int not NULL Identity,
SalesPersonName varchar(100) not Null,
ModifiedDate datetime,
Notes varchar(max),
IsManager bit,
commission decimal(10,2))
```

### Changing Data

#### Update / Delete / Insert

##### UPDATE

```
update sales.SS_Currency set [Name] =
'SS dollar', ModifiedDate = GETDATE()
where CurrencyCode = 'SSD';
select * from sales.SS_Currency
where CurrencyCode = 'SSD';
```

##### DELETE

```
Delete from sales.SS_Currency
where CurrencyCode = 'SSD';
select * from sales.SS_Currency
where CurrencyCode = 'SSD';
```

##### INSERT INTO

```
Insert Into sales.SS_Currency (CurrencyCode,
[Name], ModifiedDate)
Values ('SSD','ShilpaDollar', GETDATE())
```

### Date and time

#### Date and time

```
select GETDATE();
```

#### extract Date

```
Select FORMAT(GETDATE(),'dd/MM/yyyy')
```

#### extract time

```
select FORMAT(GETDATE(),'hh:mm:ss')
```

```
select * from sales.SpecialOffer
where format(StartDate, 'dd/MM/yyyy') =
'31/05/2011'
order by DiscountPct desc
```

### set Database to be used

#### USE

```
use AdventureWorks2019
```

```
Select * From Sales.SalesReason
Order by [name] desc;
```

#### Order BY Acending

```
Select * From Sales.SalesReason
Order By [name];
```

### Update

#### Update Multiple Rows

#### Update multiple rows

```
Update sales.SS_Currency
Set CurrencyCode = 'SHI' , [Name] = 'Shi
Dollar'
Where CurrencyCode = 'SHD';
select * from sales.SS_Currency
Where CurrencyCode = 'SHI'
or currencyCode ='BKS';
```

### Insert

#### Another Example of - Insert Into

```
insert into sales.SS_salesperson_Own (
SalesPersonName, ModifiedDate , Notes ,
IsManager, commission)
values
( 'James Smith', GETDATE(), 'likes to sing',
0, 456.55),
( 'carrol james', GETDATE(), 'likes to
dance', 0, 556.55),
( 'Aarav Prasad', GETDATE(), 'likes to play
guitar', 0, 1000.00),
( 'Aanya Prasad', GETDATE(), 'likes to play
Cello', 0, 1000),
( 'KPBS', GETDATE(), 'likes chips', 0,
5943.24),
( 'SS', GETDATE(), 'likes to play Cello', 0,
1000000)
```



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