Cheatography

# SQL Server Recipies Cheat Sheet

by Shilpa (freesprited) via cheatography.com/161506/cs/33858/

## 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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