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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