Exercise-

Create table with the below columns :

pid -- to store the numeric product id

pname -- to store the name of product with maximum 20 characte like Lux,Caddle etc.

pcompany -- to store categories of products like Soap,Wears,Utensils etc.

Pquantity -- to store the quantity of products .

pcost -- to store the amount of products.

psolddate - to store the date on which item was sold to consumers.

Now insert maximum 12 rows and fetch the records accordingly

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PID | PNAME | PCOMPANY | PQUANTITY | PCOST | PSOLDDATE |
| 101 | SOAP | LUX | 32 | 18 | 03/12/14 |
| 118 | SHOES | ADIDAS | 45 | 2500 | 02/02/15 |
| 120 | SLEEPERS | ADIDAS | 65 | 1200 | 09/11/15 |
| 156 | TSHIRTS | REEBOK | 112 | 654 | 16/08/2014 |
| 111 | SPORT LOWERS | REEBOK | 145 | 847 | 19/11/2014 |
| 165 | LAPTOP | DELL | 100 | 28000 | 12/12/14 |
| 189 | TV | SAMSUNG | 111 | 16666 | 11/04/14 |
| 245 | WRIST WATCH | TIMEX | 99 | 1500 | 14/11/2014 |
| 196 | PHONE | MICROMAX | 78 | 7500 | 14/11/2014 |
| 200 | PHONE | MOTOROLA | 45 | 8000 | 16/03/2015 |
| 215 | TV | LG | 47 | 15000 | 08/08/14 |
| 217 | REFRIGERATOR | LG | 98 | 12000 | 09/10/14 |

Now fetch the below details :

Fetch all the details .

Fetch only PID , PNAME and PSOLDDATE.

Fetch only those records which are having cost more than 5000

Fetch those records whose PID is 217

Fetch only Phone details.

Fetch only the products of company LG,Micromax and Adidas

Fetch the products which are having quanity more than 100 and cost less than 5000.

Fetch the products whose name are starting with P,L and T.

Fetch the products whose company is ending with S or K.

Fetch the products which are TV,PHONE and REFRIGERATOR.

Display all unique products names.

Fetch the products whose name is having character A at second Index.

Fetch the first three character of product name and company names.

Fetch the details of those products which are having company character length more than 5.

Display the details in the format like “ Soap is of Rs 18 from company Lux”.

Display the products which are sold in month of November and in year 2014.

Display the details of products which are sold before 6 months from now.

Display the Pid,Pname with total cost means Pcost \* Pquantity.

Display the sum , avg , count , max , min of cost of all records.

Solutions--

create table nttdata(pid int, pname varchar(20),pcompany varchar(20),pquantity int,pcost int,psolddate datetime)

select \* from nttdata

insert into nttdata values(101,'soap','lux',32,18,'12/03/2014')

insert into nttdata values(118,'shoes','adidas',45,2500,'02/02/2015')

insert into nttdata values(120,'sleepers','adidas',65,1200,'11/09/2015')

insert into nttdata values(156,'tshirts','reebok',112,654,'08/16/2014')

insert into nttdata values(111,'sports lowers','reebok',145,847,'11/19/2014')

insert into nttdata values(165,'laptop','dell',100,28000,'12/12/2014')

insert into nttdata values(189,'tv','samsung',111,16666,'04/11/14')

insert into nttdata values(245,'wrist watch','timex',99,1500,'11/14/2014')

insert into nttdata values(196,'phone','micromax',78,7500,'11/14/2014')

insert into nttdata values(200,'phone','motorola',45,8000,'03/16/2015')

insert into nttdata values(215,'tv','lg',47,15000,'08/08/2014')

insert into nttdata values(217,'refrigerator','lg',98,12000,'10/09/2014')

insert into nttdata values(217,'refrigerator','xyz',98,12000,'10/09/2016')

select PID , PNAME ,PSOLDDATE from nttdata

select pcost from nttdata where pcost>=5000

select \* from nttdata where pid=217

select \* from nttdata where pcompany like 'lg' OR pcompany like 'micromax' or pcompany like 'adidas'

SELECT \* from nttdata where pquantity>=100 and pcost<=5000

select \* from nttdata where pname like '[plt]%' //Means value start either from p or l ot t

select \* from nttdata where pname like '%[sk]'

select \* from nttdata where pname like 'tv' or pname like 'refrigerator' or pname like 'phone'

select distinct pname from nttdata

select pname from nttdata where CHARINDEX('a',pname)=2

select substring(pname,1,3),SUBSTRING(pcompany,1,3) from nttdata

select pcompany from nttdata where len(pcompany)>5

select pname + ' is of Rs ' + CONVERT(char(5),pcost) + ' from company ' + pcompany from nttdata

select sum(pcost),avg(pcost) from nttdata

select pid,pname,'total cost'=pcost\*pquantity from nttdata

select \* from nttdata where( MONTH(psolddate)= 11 And YEAR(psolddate) = 2014)

select \* from nttdata where psolddate > DATEADD(m, -6, current\_timestamp)

SQL query to find names of employee start with 'A'?

SELECT \* FROM Employees WHERE EmpName like 'A%'

SQL query to get third maximum salary of an employee from a table named employee\_table.

SELECT TOP 1 salary

FROM (

SELECT TOP 3 salary

FROM employee\_table

ORDER BY salary DESC ) AS emp

ORDER BY salary ASC;

Another example of News :

Table : NewsType

Id - Pk, identity , int

Title - unique,not null,varchar(150)//

DateOfAdd - datetime , not null

Active bit

-----Data -----

India

World

Advertisement

Editorial

-------------------------------------------------------------------------------------------------

Table : NewsCategory

Id - pk,identity , int

Title - varchar(200) , unique, not null //

DateOfAdd - datetime , not null

Active bit

-----Data-------------

Sports

Entertainment

Business

Technology/Gadgets

Culture

Politics

Weather/Disaster

Health

Automobiles

Others

Table : News ( Master table)

NewsID - pk , identity , int

NewsTypeID - fk , int

NewsCategoryID - fk , int//drop

Heading - varchar(500) , unique , not null//text

Subheading - varchar(800) , unique , not null//text box

Description - varchar(200) , unique , not null//file upload

ReporterID - uniqueidentifier , fk , not null//drop down

Place - varchar(150) , not null//text

NewsDate - datetime , not null//text

DateOfAdd - datetime , not null

Image - varchar(200) , not null//file upload

EditorID - uniqueidentifier , not null//dropdown

Priority - (1-10) - int , check cosntraintto check for range (1-10)//dropdown

Approved - bit , not null , default constraint for 0.

Read - bit , not null , default constraint for 0.

visit - int , not null

Active bit

Table : Reporter

ID - uniqueidentifier , pk

EditorID - uniqueidentifier , fk

DateOfAdd - datetime, not null

Active bit

Table : Editor

ID : uniqueidentifier , pk

DateOfAdd - datetime , not null

Active bit

Table : Person

PersonID - pk

PlaceID - int , fk

PersonName - varchar(max), not null

Mobile - varch ar(10) . unique , not null

Email - varchar(200) , unique , not null

CAddress - varchar(800) , unique , not null

PAddress - varchar(800) , unique , not null

DOJ - datetime ,not null

DOB - date , not null

Gender - char(1) , not null

Anniversary - date , allows null

Active bit

Table : Places

ID - int,identity, pk

Name - varchar(150) , not null , unique

DateOFAdd - datetime , not null

Active bit

create database newsreporter

create table newstype(ID int IDENTITY(1,1) PRIMARY KEY,title varchar(150) unique NOT NULL,DateOfAdd datetime NOT NULL,Active bit )

create table newscategory(ID int IDENTITY(1,1) PRIMARY KEY,title varchar(200) unique NOT NULL,DateOfAdd datetime NOT NULL,Active bit)

create table Editor(id uniqueidentifier PRIMARY KEY,DateOfAdd datetime NOT NULL,Active bit)

create table Places(ID int IDENTITY(1,1) PRIMARY KEY,name varchar(150) unique NOT NULL ,DateOfAdd datetime NOT NULL,Active bit)

create table Reporter(id uniqueidentifier PRIMARY KEY,EditorID uniqueidentifier FOREIGN KEY REFERENCES Editor(id),DateOfAdd datetime NOT NULL,Active bit )

create table Person(Personid int PRIMARY KEY,PlaceID int FOREIGN KEY REFERENCES Places(id) ,PersonName varchar(100) NOT NULL,Mobile varchar(10) unique NOT NULL,Email varchar(200) unique NOT NULL,CAddress varchar(200) unique NOT NULL,PAddress varchar(200) unique NOT NULL,DOJ datetime NOT NULL,

DOB date NOT NULL,Gender char(1) NOT NULL ,Anniversary date NOT NULL,Active bit)

create table News(Newsid int IDENTITY(1,1) PRIMARY KEY,Newstypeid int FOREIGN KEY REFERENCES newstype(id),Newscategoryid int FOREIGN KEY REFERENCES newscategory(id),Heading varchar(500) unique NOT NULL,Subheading varchar(800) unique NOT NULL,descriptio varchar(200) unique NOT NULL,Reporterid uniqueidentifier FOREIGN KEY REFERENCES Reporter(id) NOT NULL,

Place varchar(150) NOT NULL,NewsDate datetime NOT NULL,DateOfAdd datetime NOT NULL, Images varchar(200) NOT NULL,Editorid uniqueidentifier NOT NULL,Rangee int CHECK(Rangee<=10),Approved bit NOT NULL DEFAULT 0,Reed bit NOT NULL DEFAULT 0,visit int not null,Active bit )

create database newsreporter

create table newstype(ID int IDENTITY(1,1) PRIMARY KEY,title varchar(150) unique NOT NULL,DateOfAdd datetime NOT NULL,Active bit )

create table newscategory(ID int IDENTITY(1,1) PRIMARY KEY,title varchar(200) unique NOT NULL,DateOfAdd datetime NOT NULL,Active bit)

create table News(Newsid int IDENTITY(1,1) PRIMARY KEY,Newstypeid int FOREIGN KEY REFERENCES newstype(id),Newscategoryid int FOREIGN KEY REFERENCES newscategory(id),Heading varchar(500) unique NOT NULL,Subheading varchar(800) unique NOT NULL,descriptio varchar(200) unique NOT NULL,Reporterid uniqueidentifier NOT NULL,

Place varchar(150) NOT NULL,NewsDate datetime NOT NULL,DateOfAdd datetime NOT NULL, Images varchar(200) NOT NULL,Editorid uniqueidentifier NOT NULL,Rangee int CHECK(Rangee<=10),Approved bit NOT NULL DEFAULT 0,Reed bit NOT NULL DEFAULT 0,visit int not null,Active bit )

create table Reporter(id uniqueidentifier PRIMARY KEY,EditorID uniqueidentifier FOREIGN KEY REFERENCES,DateOfAdd datetime NOT NULL,Active bit )

create table Editor(id uniqueidentifier PRIMARY KEY,DateOfAdd datetime NOT NULL,Active bit)

create table Places(ID int IDENTITY(1,1) PRIMARY KEY,name varchar(150) unique NOT NULL ,DateOfAdd datetime NOT NULL,Active bit)

create table Person(Personid int PRIMARY KEY,PlaceID int ,PersonName varchar(100) NOT NULL,Mobile varchar(10) unique NOT NULL,Email varchar(200) unique NOT NULL,CAddress varchar(200) unique NOT NULL,PAddress varchar(200) unique NOT NULL,DOJ datetime NOT NULL,

DOB date NOT NULL,Gender char(1) NOT NULL ,Anniversary date NOT NULL,Active bit)

delete from newstype

select \* from newstype

select \* from newscategory

delete from newscategory

delete from newstype where title='yu'

select \* from news

SELECT \* From Editor

insert into Editor values(NEWID(),GETDATE(),1)

insert into places values('Delhi','10/01/2017',1)

insert into places values('Greater noida','11/02/2017',1)

delete from places

select \* from places

select \* from newscategory

select \* from newstype

select \* from Reporter

delete from Person

insert into person values('6C1C21DA-D55E-4E46-A147-D172D98E6B8A',5,'raja','9654673477','raja@gmail.com','pi','chii','3-4-2016','12-11-1995','m','11/7/2017',1,'R')

insert into person values('69625F7D-B4D6-46E8-8BBC-5B0279FB05C5',3,'ram','9654673456','sam@gmail.com','alpha2','beta2','3-5-2016','11-11-1994','m','11/7/2016',1)

insert into person values('DC8C36D2-67B7-411C-8265-38A654B29279',4,'Anchal','9654673469','anc@gmail.com','alpha1','beta1','9-5-2016','7-11-1994','f','12/7/2016',1,'E')

alter table person alter column personid uniqueidentifier

drop table person

create table Person(Personid uniqueidentifier PRIMARY KEY,PlaceID int FOREIGN KEY REFERENCES Places(id) ,PersonName varchar(100) NOT NULL,Mobile varchar(10) unique NOT NULL,Email varchar(200) unique NOT NULL,CAddress varchar(200) unique NOT NULL,PAddress varchar(200) unique NOT NULL,DOJ datetime NOT NULL,

DOB date NOT NULL,Gender char(1) NOT NULL ,Anniversary date NOT NULL,Active bit)

select \* from Reporter

insert into Reporter values(newid(),'C9C685AF-2476-4491-8A1B-D9E0573E1D77','12-4-2016',1)

insert into Reporter values(newid(),'DC8C36D2-67B7-411C-8265-38A654B29279','11-6-2016',1)

insert into Reporter values(newid(),'6FA5B882-0384-411F-8F0C-51AB3B5A06B4','11-6-2016',1)

insert into Reporter values(newid(),'ABC0B8F5-1D0A-4325-8F06-DA924C5F1F87','11-6-2016',1)

select personName,Personid from Person where Personid in (select Editorid from News)

select \* from news

select \* from Editor

select \* from Reporter

select \* from Person

select Personid,PersonName from Person where Personid in (select id from Reporter)

create table Person(Personid int PRIMARY KEY,PlaceID int FOREIGN KEY REFERENCES Places(id) ,PersonName varchar(100) NOT NULL,Mobile varchar(10) unique NOT NULL,Email varchar(200) unique NOT NULL,CAddress varchar(200) unique NOT NULL,PAddress varchar(200) unique NOT NULL,DOJ datetime NOT NULL,

DOB date NOT NULL,Gender char(1) NOT NULL ,Anniversary date NOT NULL,Active bit)

select \* from person

select Personid, PersonName from Person where Personid in (select id from Editor)

create table Person(Personid uniqueidentifier PRIMARY KEY,PlaceID int FOREIGN KEY REFERENCES Places(id) ,PersonName varchar(100) NOT NULL,Mobile varchar(10) unique NOT NULL,Email varchar(200) unique NOT NULL,CAddress varchar(200) unique NOT NULL,PAddress varchar(200) unique NOT NULL,DOJ datetime NOT NULL,

DOB date NOT NULL,Gender char(1) NOT NULL ,Anniversary date NOT NULL,Active bit)

select \* from News

alter table person add persontype char(1)

select \* from person

select \* from editor

delete from news

select \* from newscategory

delete from newscategory where title='p'

select \* from newstype

delete from newstype where title='in'

select \* from Places

insert into places values('meerut',GETDATE(),1)

insert into places values('Ghaziabad',GETDATE(),1)

select \* from Reporter

select \* from Editor

select Personid,Personname as editor from Person where Personid in (select id from Editor)

select \* from person

select \* from places

delete from news

insert into person values('261630C5-0F07-4642-B648-A1C43D6ED8D1',13,'Saumya','8373673479','saumya@gmail.com','alpha10','beta10','1-8-2016','4-9-1994','f','12/8/2016',1,'R')

insert into person values('13B94FEC-FF76-48A0-BBEF-5DC33B636765',23,'shruti','8065373834','shruti@gmail.com','gamma10','delta10','1-10-2015','1-9-1994','f','11/8/2016',1,'E')

insert into places values('Assam','11/19/2016',1)

delete from places where name='Greater noida'

insert into Reporter values(newid(),'3072F286-5DD9-47C4-A0B9-D6363B52BABA','12-7-2016',1)

select \* from Reporter

select \* from Editor

select \* from Person

select \* from Newstype

select \* from news where newscategoryid=7

select personName from Person where in (select Editorid from news)

select \* from aspnet\_Users

select \* from newscategory

select \* from newstype

alter table person add editordescription varchar(250) identity

select \* from person

SET IDENTITY\_INSERT dbo.person ON

ALTER TABLE person alter COLUMN editordescription varchar(500)

ALTER TABLE person alter COLUMN editorimage varchar(500)

select Personid,Personname from Person where Personid in (select id from Editor) .

alter table person add editorimage varchar(500)

create table messagedetail(editerid int ,detail varbinary(max),dateofmsg date,Replystatus bit,replymessage varbinary(max),replydate date,messagetitle varchar(500),messageid uniqueidentifier)

create table adrequest(name varchar(500),company varchar(300),adtype varchar(100),addescription varchar(500),requestid uniqueidentifier)

create table complaint(name varchar(100),emailid varchar(150),cmessage varchar(200),cid uniqueidentifier,dateofadd date,cstatus bit)

select \* from nttdata

select max(pcost)from nttdata

select top 1 pcost from nttdata from (select distinct top 2 pcost from nttdata orderby pcost desc )

select distinct pcost from nttdata order by pcost desc limit 1 , 1

select \* from news\_master

select \* from regiontable

select \* from countrytable

select \* from statetable

insert into statetable values('abc',1)

create table nttdata(pid int, pname varchar(20),pcompany varchar(20),pquantity int,pcost int,psolddate datetime)

select \* from nttdata

insert into nttdata values(101,'soap','lux',32,18,'12/03/2014')

insert into nttdata values(118,'shoes','adidas',45,2500,'02/02/2015')

insert into nttdata values(120,'sleepers','adidas',65,1200,'11/09/2015')

insert into nttdata values(156,'tshirts','reebok',112,654,'08/16/2014')

insert into nttdata values(111,'sports lowers','reebok',145,847,'11/19/2014')

insert into nttdata values(165,'laptop','dell',100,28000,'12/12/2014')

insert into nttdata values(189,'tv','samsung',111,16666,'04/11/14')

insert into nttdata values(245,'wrist watch','timex',99,1500,'11/14/2014')

insert into nttdata values(196,'phone','micromax',78,7500,'11/14/2014')

insert into nttdata values(200,'phone','motorola',45,8000,'03/16/2015')

insert into nttdata values(215,'tv','lg',47,15000,'08/08/2014')

insert into nttdata values(217,'refrigerator','lg',98,12000,'10/09/2014')

insert into nttdata values(217,'refrigerator','xyz',98,12000,'10/09/2016')

select PID , PNAME ,PSOLDDATE from nttdata

select pcost from nttdata where pcost>=5000

select \* from nttdata where pid=217

select \* from nttdata where pcompany like 'lg' OR pcompany like 'micromax' or pcompany like 'adidas'

SELECT \* from nttdata where pquantity>=100 and pcost<=5000

select \* from nttdata where pname like '[plt]%'

select \* from nttdata where pname like '%[sk]'

select \* from nttdata where pname like 'tv' or pname like 'refrigerator' or pname like 'phone'

select distinct pname from nttdata

select pname from nttdata where CHARINDEX('a',pname)=2

select substring(pname,1,3),SUBSTRING(pcompany,1,3) from nttdata

select pcompany from nttdata where len(pcompany)>5

select pname + ' is of Rs ' + CONVERT(char(5),pcost) + ' from company ' + pcompany from nttdata

select sum(pcost),avg(pcost) from nttdata

select pid,pname,'total cost'=pcost\*pquantity from nttdata

select \* from nttdata where( MONTH(psolddate)= 11 And YEAR(psolddate) = 2014)

select \* from nttdata where psolddate > DATEADD(m, -6, current\_timestamp)