



INGENIERÍA EN
SISTEMAS
COMPUTACIONALES



TECNOLÓGICO NACIONAL DE MÉXICO

INSTITUTO TECNOLÓGICO DE TIJUANA

SUBDIRECCIÓN ACADÉMICA
DEPARTAMENTO DE SISTEMAS Y COMPUTACION
SCA-1025SC5B

CARRERA

Ingeniería Sistemas Computacionales

MATERIA

Taller de Bases de Datos

TÍTULO

T11

UNIDAD

2

ALUMNO(S) Y NO. DE CONTROL

Guillen Martinez Anthony – 20210575

DOCENTE

Mc. Margarita Ramírez Ramírez

Codigo de la base de datos

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Database Diagrams' pane is expanded, showing the 'Tables' folder. The 'Columns' folder is also expanded, showing the columns for the 'Products' table: ProductID (PK), ProductName, SupplierID (FK), CategoryID (FK), QuantityPerUnit, UnitPrice (money), UnitsInStock (int), UnitsOnOrder (int), ReorderLevel (int), and Discontinued (bit). The 'Columns' folder is also expanded, showing the columns for the 'Employees' table: EmployeeID (PK), LastName, FirstName, Title, Address, City, State, and Country.

The main query window contains the following SQL code:

```
use Northwind
--1. Genere una lista de la tabla Empleado donde solo se genere una columna de salida y esta contenga
--los campos: EmployeeID, LastName y FirstName.
select employeeid, lastname, firstname
from employees
go
--2. Despliegue aquellos productos (Tabla Products) cuyos valores se encuentran entre los 4 y 20.
select ProductID, ProductName, SupplierID, CategoryID, QuantityPerUnit,
UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, Discontinued
from products
where ProductID between 4 and 20
go
--3. Liste los campos de la tabla productos que tengan exactamente un precio de 18,19 y 10.
select ProductID, ProductName, SupplierID, CategoryID, QuantityPerUnit,
UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, Discontinued
from products
where UnitPrice in (18,19,10)
go
--4. Encontrar todos los apellidos (LastName) en la tabla Employees que comiencen con la letra S.
select lastname
```

The results pane shows the output of the first query, displaying a list of employees with their EmployeeID, LastName, and FirstName.

employeeid	lastname	firstname
1	Devolio	Nancy
2	Fuller	Andrew
3	Leverling	Janet
4	Peacock	Margaret
5	Buchanan	Steven
6	Suyama	Michael
7	King	Robert
8	Callahan	Laura
9	Dodsworth	Anne

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Database Diagrams' pane is expanded, showing the 'Tables' folder. The 'Columns' folder is also expanded, showing the columns for the 'Products' table: ProductID (PK), ProductName, SupplierID (FK), CategoryID (FK), QuantityPerUnit, UnitPrice (money), UnitsInStock (int), UnitsOnOrder (int), ReorderLevel (int), and Discontinued (bit). The 'Columns' folder is also expanded, showing the columns for the 'Employees' table: EmployeeID (PK), LastName, FirstName, Title, Address, City, State, and Country.

The main query window contains the following SQL code:

```
go
--2. Despliegue aquellos productos (Tabla Products) cuyos valores se encuentran entre los 4 y 20.
select ProductID, ProductName, SupplierID, CategoryID, QuantityPerUnit,
UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, Discontinued
from products
where ProductID between 4 and 20
go
--3. Liste los campos de la tabla productos que tengan exactamente un precio de 18,19 y 10.
select ProductID, ProductName, SupplierID, CategoryID, QuantityPerUnit,
UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, Discontinued
```

The results pane shows the output of the second query, displaying a list of products with their ProductID, ProductName, SupplierID, CategoryID, QuantityPerUnit, UnitPrice, UnitsInStock, UnitsOnOrder, ReorderLevel, and Discontinued status.

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	22.00	53	0	0	0
5	Chef Anton's Gumbo Mix	2	2	36 boxes	21.35	0	0	0	1
6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	25.00	120	0	25	0
7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.	30.00	15	0	10	0
8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40.00	6	0	0	0
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97.00	29	0	0	1
10	Ikura	4	8	12 - 200 ml jars	31.00	31	0	0	0
11	Queso Cabrales	5	4	1 kg pkg.	21.00	22	30	30	0
12	Queso Manchego La Pastora	5	4	10 - 500 g pkgs.	38.00	86	0	0	0
13	Konbu	6	8	2 kg box	6.00	24	0	5	0
14	Tofu	6	7	40 - 100 g pkgs.	23.25	35	0	0	0
15	Genen Shouyu	6	2	24 - 250 ml bo...	15.50	39	0	5	0
16	Pavlova	7	3	32 - 500 g box...	17.45	29	0	10	0
17	Alice Mutton	7	6	20 - 1 kg tins	39.00	0	0	0	1
18	Camaron Tigres	7	8	16 kg pkg.	62.50	42	0	0	0
19	Teatime Chocolate Biscuits	8	3	10 boxes x 12 ...	9.20	25	0	5	0
20	Sir Rodney's Marmalade	8	3	30 gift boxes	81.00	40	0	0	0

Connect + [Icons]

Database Diagrams

Tables

- System Tables
- FileTables
- External Tables
- Graph Tables
- dbo.Categories
- dbo.CustomerCustom
- dbo.CustomerDemog
- dbo.Customers
- dbo.Employees
- dbo.EmployeeTerriti
- dbo.Order Details
- dbo.Orders
- dbo.Products
- Columns
 - ProductID (PK)
 - ProductName
 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder i
 - ReorderLevel (i
 - Discontinued (
- Keys
- Constraints
- Triggers

```

--3. Liste los campos de la tabla productos que tengan exactamente un precio de 18,19 y 10.
GO
--4. Encontrar todos los apellidos (LastName) en la tabla Employees que comiencen con la letra S.
--5. Despliegue los datos de los empleados cuya primera letra del apellido comienza entre A y M.

```

100 %

Results Messages

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	Chai	1	1	10 boxes x 20 bags	18.00	39	0	10	0
2	Chang	1	1	24 - 12 oz bottles	19.00	17	40	25	0
3	Aniseed Syrup	1	2	12 - 550 ml bottles	10.00	13	70	25	0
4	Sir Rodney's Scones	8	3	24 pkgs. x 4 pieces	10.00	3	40	5	0
5	Steeleye Stout	16	1	24 - 12 oz bottles	18.00	20	0	15	0
6	Inlagd Sil	17	8	24 - 250 g jars	19.00	112	0	20	0
7	Chartreuse verte	18	1	750 cc per bottle	18.00	69	0	5	0
8	Longlife Tofu	4	7	5 kg pkg.	10.00	4	20	5	0
9	Lakkalikööri	23	1	500 ml	18.00	57	0	20	0

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... Northwind 00:00:00 9 rows

Ready Ln 14 Col 1 Ch 1 INS

Connect + [Icons]

Database Diagrams

Tables

- System Tables
- FileTables
- External Tables
- Graph Tables
- dbo.Categories
- dbo.CustomerCustom
- dbo.CustomerDemog
- dbo.Customers
- dbo.Employees
- dbo.EmployeeTerriti
- dbo.Order Details
- dbo.Orders
- dbo.Products
- Columns
 - ProductID (PK)
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 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder i
 - ReorderLevel (i
 - Discontinued (
- Keys
- Constraints
- Triggers

```

--4. Encontrar todos los apellidos (LastName) en la tabla Employees que comiencen con la letra S.
--5. Despliegue los datos de los empleados cuya primera letra del apellido comienza entre A y M.

```

100 %

Results Messages

lastname
Suyama

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... Northwind 00:00:00 1 rows

Ready Ln 20 Col 1 Ch 1 INS

Connect +

Database Diagrams

Tables

- System Tables
- FileTables
- External Tables
- Graph Tables
- dbo.Categories
- dbo.CustomerCustom
- dbo.CustomerDemog
- dbo.Customers
- dbo.Employees
- dbo.EmployeeTerritori
- dbo.Order Details
- dbo.Orders
- dbo.Products
- Columns
 - ProductID (PK)
 - ProductName
 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder i
 - ReorderLevel (s
 - Discontinued (
- Keys
- Constraints
- Triggers

```

GO
--5. Despliegue los datos de los empleados cuya primera letra del apellido comienza entre A y M.
select employeeid, lastname, firstname, Title, TitleOfCourtesy, BirthDate,
       HireDate, Address, City, Region, PostalCode, Country, HomePhone, Extension,
       Photo, Notes, ReportsTo, PhotoPath
from employees
where LastName between 'A%' and 'M%'
GO

--7. Liste todos los campos de la tabla Suppliers cuya columna Region sea NULL.
select SupplierID, CompanyName, ContactName, ContactTitle, Address, City,

```

Results Messages

	employeeid	lastname	firstname	Title	TitleOfCourtesy	BirthDate	HireDate	Address	City	Region	PostalCode
1	1	Davolio	Nancy	Sales Representative	Ms.	1948-12-08 00:00:00.000	1992-05-01 00:00:00.000	507 - 20th Ave. E. Apt. 2A	Seattle	WA	98122
2	2	Fuller	Andrew	Vice President, Sales	Dr.	1952-02-19 00:00:00.000	1992-08-14 00:00:00.000	908 W. Capital Way	Tacoma	WA	98401
3	3	Leverling	Janet	Sales Representative	Ms.	1963-08-30 00:00:00.000	1992-04-01 00:00:00.000	722 Moss Bay Blvd.	Kirkland	WA	98033
4	5	Buchanan	Steven	Sales Manager	Mr.	1955-03-04 00:00:00.000	1993-10-17 00:00:00.000	14 Garnett Hill	London	NULL	SW1 8JR
5	7	King	Robert	Sales Representative	Mr.	1960-05-29 00:00:00.000	1994-01-02 00:00:00.000	Edgeham Hollow Winchester Way	London	NULL	RG1 9SP
6	8	Callahan	Laura	Inside Sales Coordinator	Ms.	1958-01-09 00:00:00.000	1994-03-05 00:00:00.000	4726 - 11th Ave. N.E.	Seattle	WA	98105
7	9	Dodsworth	Anne	Sales Representative	Ms.	1966-01-27 00:00:00.000	1994-11-15 00:00:00.000	7 Houndstooth Rd.	London	NULL	WG2 7LT

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... Northwind 00:00:00 7 rows

Ready Ln 25 Col 1 Ch 1 INS

Connect +

Database Diagrams

Tables

- System Tables
- FileTables
- External Tables
- Graph Tables
- dbo.Categories
- dbo.CustomerCustom
- dbo.CustomerDemog
- dbo.Customers
- dbo.Employees
- dbo.EmployeeTerritori
- dbo.Order Details
- dbo.Orders
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 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder i
 - ReorderLevel (s
 - Discontinued (
- Keys
- Constraints
- Triggers

```

use pubs
--6. Despliega los datos de un autor cuyo ID comienza con el numero 724, sabiendo que cada ID tiene el
--formato de tres digitos seguidos por un guion, seguido por dos digitos, otro guion y finalmente cuatro digitos.
select au_id, au_lname, phone, address, city, state, zip, contract
from authors
where au_id like '724-_-_'
GO

--8. Calcule la suma de las ventas del año hasta la fecha(ytd_sales) de todos los libros de la tabla titles.
select sum(ytd_sales)
from titles
GO

--9. Calcule el precio promedio de todos los libros (tabla titles).
select avg(price)
from titles
GO

--10. Muestre el mayor valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select max(ytd_sales)
from titles
GO

--11. Muestre el mínimo valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select min(ytd_sales)

```

Results Messages

	au_id	au_lname	phone	address	city	state	zip	contract
1	724-08-9931	Stinger	415 843-2991	5420 Telegraph Av.	Oakland	CA	94609	0
2	724-80-9391	MacFeather	415 354-7128	44 Upland Hts.	Oakland	CA	94612	1

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 2 rows

Ready Ln 4 Col 1 Ch 1 INS

Connect +

Database Diagrams

Tables

- System Tables
- FileTables
- External Tables
- Graph Tables
- dbo.Categories
- dbo.CustomerCustom
- dbo.CustomerDemog
- dbo.Employees
- dbo.EmployeeTerriti
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- dbo.Products
- Columns
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 - ProductName
 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder i
 - ReorderLevel (s
 - Discontinued (
- Keys
- Constraints
- Triggers

```

from employees
where LastName between 'AS' and 'MS'
go
--7. Liste todos los campos de la tabla Suppliers cuya columna Region sea NULL.
select SupplierID, CompanyName, ContactName, ContactTitle, Address, City,
Region, PostalCode, Country, Phone, Fax, HomePage
from Suppliers
where Region is null
go
--19. Muestre los Productos (ID del Producto, Nombre y Precio Unitario) que tengan un precio unitario

```

Results Messages

SupplierID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone
1	Exotic Liquids	Charlotte Cooper	Purchasing Manager	49 Gilbert St.	London	NULL	EC1 4SD	UK	(171) 555-222
2	Tokyo Traders	Yoshi Nagase	Marketing Manager	9-8 Sekimai Musashino-shi	Tokyo	NULL	100	Japan	(03) 3555-501
3	Mayumi's	Mayumi Ohno	Marketing Representative	92 Setsuko Chuo-ku	Osaka	NULL	545	Japan	(06) 431-7877
4	Specialty Biscuits, Ltd.	Peter Wilson	Sales Representative	29 King's Way	Manchester	NULL	M14 6SD	UK	(161) 555-444
5	PB Knäckebröd AB	Lars Peterson	Sales Agent	Kaloadagatan 13	Göteborg	NULL	S-345 67	Sweden	031-987 65 4
6	Refrescos Americanas LTDA	Carlos Diaz	Marketing Manager	Av. das Americanas 12.890	Sao Paulo	NULL	5442	Brazil	(11) 555 4640
7	Hell Süßwaren GmbH & Co. KG	Petra Winkler	Sales Manager	Tiergartenstraße 5	Berlin	NULL	10785	Germany	(010) 998451
8	Plutzer Lebensmittelgroßmärkte AG	Martin Bein	International Marketing Mgr.	Bogenallee 51	Frankfurt	NULL	60439	Germany	(069) 992755
9	Nord-Ost-Fisch Handelsgesellschaft mbH	Sven Petersen	Coordinator Foreign Markets	Frahmredder 112a	Cuxhaven	NULL	27478	Germany	(04721) 8713
10	Fornaggi Fortini s.r.l.	Elio Rossi	Sales Representative	Viale Dante, 75	Ravenna	NULL	48100	Italy	(0544) 60323
11	Norske Meieri	Beate Vileid	Marketing Manager	Hatlevegen 5	Sandvika	NULL	1320	Norway	(02) 963010
12	Svensk Sjöföda AB	Michael Björn	Sales Representative	Brovallavägen 231	Stockholm	NULL	S-123 45	Sweden	08-123 45 67
13	Aux joyeux ecclésiastiques	Guyfène Nodier	Sales Manager	203, Rue des Francs-Bourgeois	Paris	NULL	75004	France	(1) 03.83.00.6
14	Leka Trading	Chandra Leka	Owner	471 Serangoon Loop, Suite #402	Singapore	NULL	0512	Singapore	555-8787
15	Lyngbysild	Niels Petersen	Sales Manager	Lyngbysild Fiskebakken 10	Lyngby	NULL	2800	Denmark	43844108
16	Zaanse Snoepfabriek	Dirk Luchte	Accounting Manager	Verkoop Rijnweg 22	Zaandam	NULL	9999 ZZ	Netherlands	(12345) 1212

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946(eddie ... Northwind 00:00:00 20 rows

Ready Ln 32 Col 1 Ch 1 INS

Connect +

Database Diagrams

Tables

- System Tables
- FileTables
- External Tables
- Graph Tables
- dbo.Categories
- dbo.CustomerCustom
- dbo.CustomerDemog
- dbo.Employees
- dbo.EmployeeTerriti
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 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder i
 - ReorderLevel (s
 - Discontinued (
- Keys
- Constraints
- Triggers

```

use pubs
--6. Despliega los datos de un autor cuyo ID comienza con el numero 724, sabiendo que cada ID tiene el
--formato de tres digitos seguidos por un guion, seguido por dos digitos, otro guion y finalmente cuatro digitos.
select au_id, au_lname, phone, address, city, state, zip, contract
from authors
where au_id like 'X724-__-____'
go
--8. Calcule la suma de las ventas del año hasta la fecha(ytd_sales) de todos los libros de la tabla titles.
select sum(ytd_sales)
from titles
go
--9. Calcule el precio promedio de todos los libros (tabla titles).
select avg(price)
from titles
go
--10. Muestre el mayor valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select max(ytd_sales)
from titles
go
--11. Muestre el mínimo valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select min(ytd_sales)

```

Results Messages

(No column name)
97446

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946(eddie ... pubs 00:00:00 1 rows

Ready Ln 9 Col 1 Ch 1 INS

Connect -> Database Diagrams

- Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Categories
 - dbo.CustomerCustom
 - dbo.CustomerDemog
 - dbo.Customers
 - dbo.Employees
 - dbo.EmployeeTerritori
 - dbo.Order Details
 - dbo.Orders
 - dbo.Products
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 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
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 - UnitsOnOrder i
 - ReorderLevel (i
 - Discontinued (
 - Keys
 - Constraints
 - Triggers

```

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--6. Despliega los datos de un autor cuyo ID comienza con el numero 724, sabiendo que cada ID tiene el
--formato de tres digitos seguidos por un guion, seguido por dos digitos, otro guion y finalmente cuatro digitos.
select au_id, au_lname, phone, address, city, state, zip, contract
from authors
where au_id like '%724-__-____'
go
--8. Calcule la suma de las ventas del año hasta la fecha(ytd_sales) de todos los libros de la tabla titles.
select sum(ytd_sales)
from titles
go
--9. Calcule el precio promedio de todos los libros (tabla titles).
select avg(price)
from titles
go
--10. Muestre el mayor valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select max(ytd_sales)
from titles
go
--11. Muestre el mínimo valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select min(ytd_sales)

```

Results (No column name)

1	14.7662
---	---------

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 1 rows

Ready Ln 13 Col 1 Ch 1 INS

Connect -> Database Diagrams

- Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Categories
 - dbo.CustomerCustom
 - dbo.CustomerDemog
 - dbo.Customers
 - dbo.Employees
 - dbo.EmployeeTerritori
 - dbo.Order Details
 - dbo.Orders
 - dbo.Products
 - Columns
 - ProductID (PK)
 - ProductName
 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder i
 - ReorderLevel (i
 - Discontinued (
 - Keys
 - Constraints
 - Triggers

```

select avg(price)
from titles
go
--10. Muestre el mayor valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select max(ytd_sales)
from titles
go
--11. Muestre el mínimo valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select min(ytd_sales)
from titles
go
--12. Cuente las filas de la tabla titles.
select count(*)
from titles
go
--13. Cuente los datos de la tabla titles, cuyo tipo (TYPE) sea business.
select count(type)
from titles
where type like '%business'
go
--14. Liste la suma de las ventas por año (ytd_sales) de la tabla titles, clasificándolas por tipo (TYPE) de título.

```

Results (No column name)

1	22246
---	-------

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 1 rows

Ready Ln 17 Col 1 Ch 1 INS

Database Diagrams

- Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - Categories
 - dbo.CustomerCustom
 - dbo.CustomerDemog
 - dbo.Customers
 - dbo.Employees
 - dbo.EmployeeTerritori
 - dbo.Order Details
 - dbo.Orders
 - dbo.Products
 - Columns
 - ProductID (PK)
 - ProductName
 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder i
 - ReorderLevel (s
 - Discontinued (
 - Keys
 - Constraints
 - Triggers

```

select avg(price)
from titles
go
--10. Muestre el mayor valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select max(ytd_sales)
from titles
go
--11. Muestre el minimo valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select min(ytd_sales)
from titles
go
--12. Cuente las filas de la tabla titles.
select count(*)
from titles
go
--13. Cuente los datos de la tabla titles, cuyo tipo (TYPE) sea business.
select count(type)
from titles
where type like '%business'
go
--14. Liste la suma de las ventas por año (ytd_sales) de la tabla titles, clasificándolas por tipo (TYPE) de titulo.

```

Results

(No column name)
111

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 1 rows

Ready Ln 21 Col 1 Ch 1 INS

Database Diagrams

- Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - Categories
 - dbo.CustomerCustom
 - dbo.CustomerDemog
 - dbo.Customers
 - dbo.Employees
 - dbo.EmployeeTerritori
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 - dbo.Products
 - Columns
 - ProductID (PK)
 - ProductName
 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
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 - ReorderLevel (s
 - Discontinued (
 - Keys
 - Constraints
 - Triggers

```

select avg(price)
from titles
go
--10. Muestre el mayor valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select max(ytd_sales)
from titles
go
--11. Muestre el minimo valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select min(ytd_sales)
from titles
go
--12. Cuente las filas de la tabla titles.
select count(*)
from titles
go
--13. Cuente los datos de la tabla titles, cuyo tipo (TYPE) sea business.
select count(type)
from titles
where type like '%business'
go
--14. Liste la suma de las ventas por año (ytd_sales) de la tabla titles, clasificándolas por tipo (TYPE) de titulo.

```

Results

(No column name)
18

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 1 rows

Ready Ln 25 Col 1 Ch 1 INS

Database Diagrams

- Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Categories
 - dbo.CustomerCustom
 - dbo.CustomerDemog
 - dbo.Customers
 - dbo.Employees
 - dbo.EmployeeTerriti
 - dbo.Order Details
 - dbo.Orders
 - dbo.Products
 - Columns
 - ProductID (PK)
 - ProductName
 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder (i
 - ReorderLevel (s
 - Discontinued (
 - Keys
 - Constraints
 - Triggers

```

select avg(price)
from titles
go
--10. Muestre el mayor valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select max(ytd_sales)
from titles
go
--11. Muestre el mínimo valor de las ventas del año (ytd_sales) de todos los libros de la tabla titles.
select min(ytd_sales)
from titles
go
--12. Cuento las filas de la tabla titles.
select count(*)
from titles
go
--13. Cuento los datos de la tabla titles, cuyo tipo (TYPE) sea business.
select count(type)
from titles
where type like '%business'
go
--14. Liste la suma de las ventas por año (ytd_sales) de la tabla titles, clasificándolas por tipo (TYPE) de título.

```

Results

(No column name)
4

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 1 rows

Database Diagrams

- Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Categories
 - dbo.CustomerCustom
 - dbo.CustomerDemog
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 - dbo.Order Details
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 - ProductID (PK)
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 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder (i
 - ReorderLevel (s
 - Discontinued (
 - Keys
 - Constraints
 - Triggers

```

from titles
where type like '%business'
go
--14. Liste la suma de las ventas por año (ytd_sales) de la tabla titles, clasificándolas por tipo (TYPE) de título.
select type, sum(ytd_sales)
from titles
group by type
go
--15. Liste las sumas de las ventas por año (ytd_sales) hasta la fecha, clasificándolas por tipo (TYPE) y
--pub_id, liste solamente los grupos cuyo pub_id sea igual a 0877, utilizando having.
select type, pub_id, sum(ytd_sales)
as total_quantity
from titles
group by type, pub_id
having (pub_id)=0877
go
--16. Combine las tablas stores y discounts para mostrar que tienda (stor_id) ofrece un descuento y el
--tipo de descuento (discounttype). (Full Outer Join).
select * from stores
full Outer Join discounts
on stores.stor_id = discounts.discounttype

```

Results

type	(No column name)
business	30788
mod_cook	24278
popular_comp	12875
psychology	9939
trad_cook	19566
UNDECIDED	NULL

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 6 rows

Database Diagrams

- Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Categories
 - dbo.CustomerCustom
 - dbo.CustomerDemog
 - dbo.Customers
 - dbo.Employees
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 - dbo.Order Details
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 - Columns
 - ProductID (PK)
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 - SupplierID (FK)
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 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder (
 - ReorderLevel (s
 - Discontinued (
 - Keys
 - Constraints
 - Triggers

```

from titles
where type like '%business'
go
--14. Liste la suma de las ventas por año (ytd_sales) de la tabla titles, clasificándolas por tipo (TYPE) de título.
select type, sum(ytd_sales)
from titles
group by type
go
--15. Liste las sumas de las ventas por año (ytd_sales) hasta la fecha, clasificándolas por tipo (TYPE) y
--pub_id, liste solamente los grupos cuyo pub_id sea igual a 0877, utilizando having.
select type, pub_id, sum(ytd_sales)
as total_quantity
from titles
group by type, pub_id
having (pub_id)=0877
go
--16. Combine las tablas stores y discounts para mostrar que tienda (stor_id) ofrece un descuento y el
--tipo de descuento (discounttype). (Full Outer Join).
select * from stores
full outer join discounts
on stores.stor_id = discounts.discounttype

```

Results

type	pub_id	total_quantity
mod_cook	0877	24278
psychology	0877	375
trad_cook	0877	19566
UNDECIDED	0877	NULL

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 4 rows

Database Diagrams

- Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Categories
 - dbo.CustomerCustom
 - dbo.CustomerDemog
 - dbo.Customers
 - dbo.Employees
 - dbo.EmployeeTerritori
 - dbo.Order Details
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 - ProductID (PK)
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 - SupplierID (FK)
 - CategoryID (FK)
 - QuantityPerUn
 - UnitPrice (mor
 - UnitsInStock (s
 - UnitsOnOrder (
 - ReorderLevel (s
 - Discontinued (
 - Keys
 - Constraints
 - Triggers

```

group by type, pub_id
having (pub_id)=0877
go
--16. Combine las tablas stores y discounts para mostrar que tienda (stor_id) ofrece un descuento y el
--tipo de descuento (discounttype). (Full Outer Join).
select * from stores
full outer join discounts
on stores.stor_id = discounts.discounttype
--17. Utilice el mismo ejemplo anterior solo utilice en el from la instruccion LEFT OUTER JOIN.
select * from stores
left outer join discounts
on stores.stor_id = discounts.discounttype
--18. Utilice el mismo ejemplo anterior solo utilice en el from la instruccion RIGHT.
select * from stores
right outer join discounts
on stores.stor_id = discounts.discounttype

```

Results

stor_id	stor_name	stor_address	city	state	zip	discounttype	stor_id	lowqty	highqty	discount
6380	Eric the Read Books	788 Catamagus Ave.	Seattle	WA	98056	NULL	NULL	NULL	NULL	NULL
7066	Bamum's	567 Pasadena Ave.	Tustin	CA	92789	NULL	NULL	NULL	NULL	NULL
7067	News & Brews	577 First St.	Los Gatos	CA	96745	NULL	NULL	NULL	NULL	NULL
7131	Doc-U-Mat: Quality Laundry and Books	24-A Avogadro Way	Remulade	WA	98014	NULL	NULL	NULL	NULL	NULL
7896	Ficative Bookshop	89 Madison St.	Fremont	CA	90019	NULL	NULL	NULL	NULL	NULL
8042	Bookbeat	679 Carson St.	Portland	OR	89076	NULL	NULL	NULL	NULL	NULL
NULL	NULL	NULL	NULL	NULL	NULL	Initial Customer	NULL	NULL	NULL	10.50
NULL	NULL	NULL	NULL	NULL	NULL	Volume Disc...	NULL	100	1000	6.70
NULL	NULL	NULL	NULL	NULL	NULL	Customer Dis...	8042	NULL	NULL	5.00

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 9 rows

group by type, pub_id
having (pub_id)=8877
go

--16. Combine las tablas stores y discounts para mostrar que tienda (stor_id) ofrece un descuento y el
--tipo de descuento (discounttype). (Full Outer Join).

```
select * from stores
full Outer Join discounts
on stores.stor_id = discounts.discounttype
--17. Utilice el mismo ejemplo anterior solo utilice en el from la instruccion LEFT OUTER JOIN.
select * from stores
left Outer Join discounts
on stores.stor_id = discounts.discounttype
--18. Utilice el mismo ejemplo anterior solo utilice en el from la instruccion RIGHT.
select * from stores
right Outer Join discounts
on stores.stor_id = discounts.discounttype
```

Results

stor_id	stor_name	stor_address	city	state	zip	discounttype	stor_id	lowqty	highqty	discount
6380	Eric the Read Books	788 Catamaugus Ave.	Seattle	WA	98056	NULL	NULL	NULL	NULL	NULL
7066	Banum's	567 Pasadena Ave.	Tustin	CA	92789	NULL	NULL	NULL	NULL	NULL
7067	News & Brews	577 First St.	Los Gatos	CA	96745	NULL	NULL	NULL	NULL	NULL
7131	Doc-U-Mat: Quality Laundry and Books	24-A Avogadro Way	Pemulade	WA	98014	NULL	NULL	NULL	NULL	NULL
7896	Fricative Bookshop	89 Madison St.	Fremont	CA	90019	NULL	NULL	NULL	NULL	NULL
8042	Bookbeat	679 Carson St.	Portland	OR	89076	NULL	NULL	NULL	NULL	NULL

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 6 rows

--tipo de descuento (discounttype). (Full Outer Join).

```
select * from stores
full Outer Join discounts
on stores.stor_id = discounts.discounttype
--17. Utilice el mismo ejemplo anterior solo utilice en el from la instruccion LEFT OUTER JOIN.
select * from stores
left Outer Join discounts
on stores.stor_id = discounts.discounttype
--18. Utilice el mismo ejemplo anterior solo utilice en el from la instruccion RIGHT.
select * from stores
right Outer Join discounts
on stores.stor_id = discounts.discounttype
```

Results

stor_id	stor_name	stor_address	city	state	zip	discounttype	stor_id	lowqty	highqty	discount
NULL	NULL	NULL	NULL	NULL	NULL	Initial Customer	NULL	NULL	NULL	10.50
NULL	NULL	NULL	NULL	NULL	NULL	Volume Discount	NULL	100	1000	6.70
NULL	NULL	NULL	NULL	NULL	NULL	Customer Discount	8042	NULL	NULL	5.00

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... pubs 00:00:00 3 rows

Region, PostalCode, Country, Phone, Fax, HomePage

```

from Suppliers
where Region is null
go
--19. Muestre los Productos (ID del Producto, Nombre y Precio Unitario) que tengan un precio unitario
--igual al Maximo.
select ProductID, ProductName, UnitPrice
from products
where UnitPrice = (select max(UnitPrice) from products);
--20. Muestre los Productos (ID del Producto, Nombre y Precio Unitario) que tengan un precio unitario
--igual al Minimo.
select ProductID, ProductName, UnitPrice
from products
where UnitPrice = (select min(UnitPrice) from products);

```

100 %

ProductID	ProductName	UnitPrice
1	Côte de Blaye	263.50

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... Northwind 00:00:00 1 rows

Ready Ln 39 Col 1 Ch 1 INS

Region, PostalCode, Country, Phone, Fax, HomePage

```

from Suppliers
where Region is null
go
--19. Muestre los Productos (ID del Producto, Nombre y Precio Unitario) que tengan un precio unitario
--igual al Maximo.
select ProductID, ProductName, UnitPrice
from products
where UnitPrice = (select max(UnitPrice) from products);
--20. Muestre los Productos (ID del Producto, Nombre y Precio Unitario) que tengan un precio unitario
--igual al Minimo.
select ProductID, ProductName, UnitPrice
from products
where UnitPrice = (select min(UnitPrice) from products);

```

100 %

ProductID	ProductName	UnitPrice
1	Getlost	2.50

Query executed successfully. LAPTOP-KVENU946 (15.0 RTM) LAPTOP-KVENU946\eddie ... Northwind 00:00:00 1 rows

Ready Ln 44 Col 1 Ch 1 INS