

Práctico II – Consultas Básicas y Operadores

1. Consultas básicas:

Realizar las siguientes consultas SQL

i) Obtener el id y el nombre de todos los productos.

Referencia: Production.Product

	ProductID	Name
1	1	Adjustable Race
2	879	All-Purpose Bike Stand
3	712	AWC Logo Cap
4	3	BB Ball Bearing
5	2	Bearing Ball
6	877	Bike Wash - Dissolver
7	316	Blade
8	843	Cable Lock
9	952	Chain
10	324	Chain Stays
11	322	Chaining
12	320	Chaining Bolts

Query executed succes... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 504 rows

ii) Obtener el id, el nombre y el precio de lista de todos los productos cuyo precio de Lista es mayor o igual a 100.

Referencia: Production.Product

	ProductID	Name	ListPrice
1	514	LL Mountain Seat Assembly	133.34
2	515	ML Mountain Seat Assembly	147.14
3	516	HL Mountain Seat Assembly	196.92
4	517	LL Road Seat Assembly	133.34
5	518	ML Road Seat Assembly	147.14
6	519	HL Road Seat Assembly	196.92
7	520	LL Touring Seat Assembly	133.34
8	521	ML Touring Seat Assembly	147.14
9	522	HL Touring Seat Assembly	196.92
10	680	HL Road Frame - Black, 58	1431.50
11	706	HL Road Frame - Red, 58	1431.50
12	717	HL Road Frame - Red, 62	1431.50

Query executed succes... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 214 rows

iii) Obtener el id y el nombre de los productos cuyo precio de lista es igual a 0 (cero).

Referencia: Production.Product

Results		Messages
	ProductID	Name
1	1	Adjustable Race
2	2	Bearing Ball
3	3	BB Ball Bearing
4	4	Headset Ball Bearings
5	316	Blade
6	317	LL Crankarm
7	318	ML Crankarm
8	319	HL Crankarm
9	320	Chaining Bolts
10	321	Chaining Nut
11	322	Chaining
12	323	Crown Race

Query executed success... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 200 rows

iv) Obtener el número de producto, el nombre y el precio de lista de todos los productos cuyo precio de Lista sean 4.99, 9.50 o 13.99.

Referencia: Production.Product

Results Messages

	ProductNumber	Name	ListPrice
1	SO-B909-M	Mountain Bike Socks, M	9.50
2	SO-B909-L	Mountain Bike Socks, L	9.50
3	LT-T990	Taillights - Battery-Powered	13.99
4	WB-H098	Water Bottle - 30 oz.	4.99
5	TT-M928	Mountain Tire Tube	4.99
6	TT-T092	Touring Tire Tube	4.99

Query executed successf... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 6 rows

- v) Obtener todos los datos de las empleadas (sexo femenino) y de estado civil solteras.

Referencia: HumanResources.Employee

Results Messages						
	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	JobTitle
1	2	245797967	adventure-works\temi0	0x58	1	Vice President of Engineering
2	8	811994146	adventure-works\diane1	0x5AE158	4	Research and Development Engin
3	19	52541318	adventure-works\mary2	0x6BC0	2	Marketing Assistant
4	27	446466105	adventure-works\jo0	0x7AD6	3	Production Supervisor - WC60
5	40	309738752	adventure-works\jolynn0	0x7ADA	3	Production Supervisor - WC60
6	61	92096924	adventure-works\diane2	0x7AE194	4	Production Technician - WC50
7	88	294148271	adventure-works\betsy0	0x7AE8AC	4	Production Technician - WC10
8	90	82638150	adventure-works\dani...	0x7AE8BC	4	Production Technician - WC10
9	91	290124915	adventure-works\kim...	0x7AE8C2	4	Production Technician - WC10

Query executed successf... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 35 rows

2. Escriba una consulta que devuelva los números de los productos que comiencen con 'BB'.

Referencia: Production.Product

Results Messages	
	ProductNumber
1	BB-7421
2	BB-8107
3	BB-9108

Query executed successf... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 3 rows

- a. Obtener además el precio de lista de los productos anteriores, pero sólo los que tienen precio mayor a 100.

Results Messages		
	ProductNumber	ListPrice
1	BB-8107	101.24
2	BB-9108	121.49

Query executed successf... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 2 rows

3. Se desea obtener la lista de LoginID y cargo de los empleados que son supervisores (que en alguna parte de su JobTitle diga 'Supervisor')

Referencia: HumanResources.Employee

Results		Messages
LoginID	Job Title	
1	adventure-works\jo0	Production Supervisor - WC60
2	adventure-works\jolynn0	Production Supervisor - WC60
3	adventure-works\andrew0	Production Supervisor - WC10
4	adventure-works\taylor0	Production Supervisor - WC50
5	adventure-works\john0	Production Supervisor - WC60
6	adventure-works\michael3	Production Supervisor - WC30
7	adventure-works\reuben0	Production Supervisor - WC40

Query executed successfully... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 24 rows

- a. Ahora obtenga los mismos datos de las personas que no sean supervisores.

Results		Messages
LoginID	Job Title	
1	adventure-works\ken0	Chief Executive Officer
2	adventure-works\tem0	Vice President of Engineering
3	adventure-works\voberto0	Engineering Manager
4	adventure-works\rob0	Senior Tool Designer
5	adventure-works\gail0	Design Engineer
6	adventure-works\jossef0	Design Engineer
7	adventure-works\dylan0	Research and Development Manager

Query executed successfully... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 266 rows

4. Obtener el nombre y el apellido de las personas cuyo apellido comienza con una vocal.

Referencia: Person.Person

Results		Messages
FirstName	LastName	
1	Syed	Abbas
2	Catherine	Abel
3	Kim	Abercrombie
4	Kim	Abercrombie
5	Kim	Abercrombie
6	Hazem	Abolrous
7	Sam	Abolrous

Query executed successfully... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 1228 rows

- a. Ahora obtenga los mismos datos de las personas cuyo apellido no comienza con una vocal.

	FirstName	LastName
1	Phillip	Bacalzo
2	Dan	Bacon
3	Dan	Bacon
4	Abigail	Bailey
5	Adrian	Bailey
6	Alex	Bailey
7	Alexa	Bailey

Query executed succ... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 18744 rows

5. Crear una consulta que muestre los empleados (LoginID) y su cargo, cuyo login comience con la letra 'k' (Posición 17). Utilizar la tabla: HumanResources.Employee y columna: LoginID

	LoginID	Job Title
1	adventure-works\ken0	Chief Executive Officer
2	adventure-works\kevin0	Marketing Assistant
3	adventure-works\kim1	Production Technician - WC60
4	adventure-works\kendall0	Production Technician - WC50
5	adventure-works\karan0	Production Technician - WC60
6	adventure-works\kimberly0	Production Technician - WC10
7	adventure-works\kok-ho0	Production Supervisor - WC50

Query executed successf... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 18 rows

6. Obtener los datos de los empleados que son el 50% del total de empleados de la empresa.

Referencia: HumanResources.Employee

	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	Job Title
1	1	295847284	adventure-works\ken0	0x	0	Chief Executive Officer
2	2	245797967	adventure-works\tem0	0x58	1	Vice President of Engineering
3	3	509647174	adventure-works\roberto0	0x5AC0	2	Engineering Manager
4	4	112457891	adventure-works\rob0	0x5AD6	3	Senior Tool Designer
5	5	695256908	adventure-works\gail0	0x5ADA	3	Design Engineer
6	6	998320692	adventure-works\jossef0	0x5ADE	3	Design Engineer
7	7	124969119	adventure-works\edger0	0x5AE1	3	Research and Development Manager

Query executed succes... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 145 rows

7. El departamento de marketing necesita una lista de los 15 productos más caros ordenados de forma descendente.

Referencia: Production.Product

La consulta debe incluir los campos "ProductNumber", "ListPrice" y "Name".

	ProductNumber	ListPrice	Name
1	BK-R93R-62	3578.27	Road-150 Red, 62
2	BK-R93R-44	3578.27	Road-150 Red, 44
3	BK-R93R-48	3578.27	Road-150 Red, 48
4	BK-R93R-52	3578.27	Road-150 Red, 52
5	BK-R93R-56	3578.27	Road-150 Red, 56
6	BK-M82S-38	3399.99	Mountain-100 Silver, 38
7	BK-M82S-42	3399.99	Mountain-100 Silver, 42
8	BK-M82S-44	3399.99	Mountain-100 Silver, 44

Query executed successfully... DESKTOP-T17RHRK\SQLEXPRESS ... DESKTOP-T17RHRK\usuari... AdventureWorks2008 00:00:00 15 rows

- ¿Cuál es el producto más caro?
- ¿Cuál es el producto que está en el lugar 15?
- ¿Cómo sería la consulta si quisiéramos saber los 15 productos más baratos que no tengan precio 0 (cero)?

	ProductNumber	ListPrice	Name
1	PK-7098	2.29	Patch Kit/8 Patches
2	TT-R982	3.99	Road Tire Tube
3	WB-H098	4.99	Water Bottle - 30 oz.
4	TT-M928	4.99	Mountain Tire Tube
5	TT-T092	4.99	Touring Tire Tube
6	CL-9009	7.95	Bike Wash - Dissolver
7	CA-1098	8.99	AWC Logo Cap
8	BC-R985	8.99	Bike Rack

Query executed successfully... DESKTOP-T17RHRK\SQLEXPRESS ... DESKTOP-T17RHRK\usuari... AdventureWorks2008 00:00:00 15 rows

8. Obtener todos los apellidos de las personas de la base de datos.

Referencia: Person.Person

	LastName
1	Abbas
2	Abel
3	Abercrombie
4	Abercrombie
5	Abercrombie
6	Abolrous
7	Abolrous

Query executed successfully... DESKTOP-T17RHRK\SQLEXPRESS ... DESKTOP-T17RHRK\usuari... AdventureWorks2008 00:00:00 19972 rows

- a. Obtener ahora todos los apellidos distintos de las personas de la base de datos.

Results		Messages
	LastName	
1	Abbas	
2	Abel	
3	Abercrombie	
4	Abolrous	
5	Acevedo	
6	Achong	
7	Ackerman	
8	Adams	

Query executed successfully... | DESKTOP-T17RHRK\SQLEXPRESS... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 1206 rows

9. Obtener todos los productos cuyo precio de lista esté entre 100 y 200, y su número de producto comience con 'SA', ordenados por precio de lista de manera ascendente.

Referencia: Production.Product

Results		Messages							
	ProductID	Name	ProductNumber	MakeFlag	FinishedGoodsFlag	Color	SafetyStockLevel	ReorderPoint	
1	514	LL Mountain Seat Assembly	SA-M198	1	0	NULL	500	375	
2	517	LL Road Seat Assembly	SA-R127	1	0	NULL	500	375	
3	520	LL Touring Seat Assembly	SA-T467	1	0	NULL	500	375	
4	521	ML Touring Seat Assembly	SA-T612	1	0	NULL	500	375	
5	518	ML Road Seat Assembly	SA-R430	1	0	NULL	500	375	
6	515	ML Mountain Seat Assembly	SA-M237	1	0	NULL	500	375	
7	516	LL Mountain Seat Assembly	SA-M687	1	0	NULL	500	375	
Query executed successfully... DESKTOP-T17RHRK\SQLEXPRESS ... DESKTOP-T17RHRK\usuari... AdventureWorks2008 00:00:00 9 rows									

10. Utilizando los operadores IN o NOT IN:

- a. Traer los datos de todos los empleados, salvo los que Tienen horas de vacaciones 76,84,85,86,87,89,90

Results Messages

	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	JobTitle
1	1	295847284	adventure-works\ken0	0x	0	Chief Executive Officer
2	2	245797967	adventure-works\tem0	0x58	1	Vice President of Engineering
3	3	509647174	adventure-works\roberto0	0x5AC0	2	Engineering Manager
4	4	112457891	adventure-works\rob0	0x5AD6	3	Senior Tool Designer
5	5	695256908	adventure-works\gail0	0x5ADA	3	Design Engineer
6	6	998320692	adventure-works\jossef0	0x5ADE	3	Design Engineer
7	7	124969119	adventure-works\dylan0	0x5AE1	2	Research and Development Manager

Query executed successfully... | DESKTOP-T17RHRK\SQLEXPRESS... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 269 rows

b. Traer los datos de los empleados que tienen 30 o 50 horas de vacaciones

	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	Job Title
1	63	414476027	adventure-works\maciej0	0x7AE358	4	Production Technician - WC60
2	179	587567941	adventure-works\jan0	0x7AF056D8	4	Production Technician - WC30
3	202	436757988	adventure-works\tawana0	0x7AF06EA8	4	Production Technician - WC40
4	238	264306399	adventure-works\vidur0	0x856F	3	Recruiter
5	260	437296311	adventure-works\annette0	0x85EBAA	4	Purchasing Assistant

Query executed successf... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 5 rows

11. Obtener el nombre del producto, su precio de lista y una nueva columna que calcule el IVA (22%) del producto (colocarle el siguiente alias a la columna: IVA), de los productos cuyo precio de lista sea distinto de 0 (cero).

Referencia: Production.Product

	Name	ListPrice	IVA
1	LL Mountain Seat Assembly	133.34	29.334800
2	ML Mountain Seat Assembly	147.14	32.370800
3	HL Mountain Seat Assembly	196.92	43.322400
4	LL Road Seat Assembly	133.34	29.334800
5	ML Road Seat Assembly	147.14	32.370800
6	HL Road Seat Assembly	196.92	43.322400
7	LL Touring Seat Assembly	133.34	29.334800

Query executed succes... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 304 rows

a. A la consulta anterior agregarle otra columna que calcule la diferencia entre el precio de lista y el costo estándar (colocarle el siguiente alias a la columna: 'Diferencia entre precios'), además ordenar los resultados por esta última columna de mayor a menor.

	Name	ListPrice	IVA	Diferencia entre precios
1	Mountain-100 Silver, 38	3399.99	747.997800	1487.8356
2	Mountain-100 Silver, 42	3399.99	747.997800	1487.8356
3	Mountain-100 Silver, 44	3399.99	747.997800	1487.8356
4	Mountain-100 Silver, 48	3399.99	747.997800	1487.8356
5	Mountain-100 Black, 38	3374.99	742.497800	1476.8956
6	Mountain-100 Black, 42	3374.99	742.497800	1476.8956
7	Mountain-100 Black, 44	3374.99	742.497800	1476.8956

Query executed succes... | DESKTOP-T17RHRK\SQLEXPRESS ... | DESKTOP-T17RHRK\usuari... | AdventureWorks2008 | 00:00:00 | 304 rows