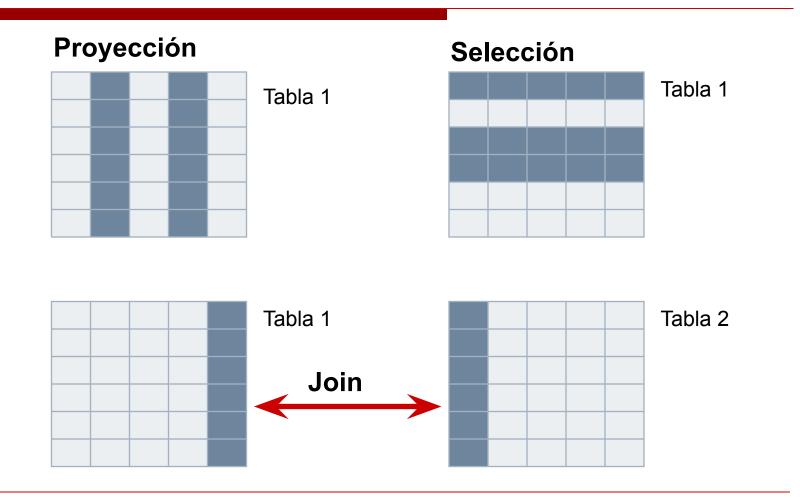
Sentencias SQL

Laboratorio Base de Datos I.

Lenguaje de consulta SQL



Lenguaje SQL

```
    ■ SELECT

            SELECT
            [TOP expresión [PERCENT] [ WITH TIES ] ]
            lista seleccionada> [ INTO nueva_tabla ]
            [ FROM tabla ]
            [ WHERE condición ]
            [ GROUP BY expresión ]
                 [ HAVING condición ]
                  [ ORDER BY expresión [ ASC | DESC ] ]
                  □ Join
                  ■ CROSS
                  □ CROSS
                  □ CROSS
                  □ SELECT
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```

OUTER (LEFT, RIGHT, FULL)

INNER

Sentencias SELECT Básicas 1ra.Parte

```
SELECT *|{[DISTINCT] column|expression [alias],...} FROM table;
```

- SELECT identifica las columnas
- FROM identifica la tabla

Selección de Todas las Columnas

USE AdventureWorks;

GO

SELECT *

FROM HumanResources. Department;

	DepartmentID	Name	GroupName	ModifiedDate
1	1	Engineering	Research and Development	1998-06-01 00:00:00.000
2	2	Tool Design	Research and Development	1998-06-01 00:00:00.000
3	3	Sales	Sales and Marketing	1998-06-01 00:00:00.000
4	4	Marketing	Sales and Marketing	1998-06-01 00:00:00.000
5	5	Purchasing	Inventory Management	1998-06-01 00:00:00.000
6	6	Research and Development	Research and Development	1998-06-01 00:00:00.000
7	7	Production	Manufacturing	1998-06-01 00:00:00.000
8	8	Production Control	Manufacturing	1998-06-01 00:00:00.000
9	9	Human Resources	Executive General and Administration	1998-06-01 00:00:00.000
10	10	Finance	Evecutive General and Administra	16 filas afectad

Selección de Columnas Específicas

USE AdventureWorks;

GO

SELECT DepartmentID, Name

FROM HumanResources. Department;

	DepartmentID	Name
1	12	Document Control
2	1	Engineering
3	16	Executive
4	14	Facilities and Maintenance
5	10	Finance
6	9	Human Resources
7	11	Information Services
8	4	Marketing
9	7	Production
10	8	Production Control
11	5	Purchasing
12	13	Quality Assurance
13	6	Research and Development
14	3	Sales
15	15	Shipping and Receiving
10	2	Tool Design

(16 filas afectadas)

Expresiones Aritméticas

Pueden ser creadas con datos numéricos y operadores aritméticos.

Operador	Descripción
+	Suma
-	Resta
*	Multiplicación
I	División

Uso de Operadores Aritméticos

SELECT Name, StandardCost, ListPrice, ListPrice - StandardCost **FROM** Production.Product

	Name	StandardC	ListPrice	Diferencia
1	LL Mountain Seat Assembly	98,77	133,34	34,57
2	ML Mountain Seat Assembly	108,99	147,14	38,15
3	HL Mountain Seat Assembly	145,87	196,92	51,05
4	LL Road Seat Assembly	98,77	133,34	34,57
5	ML Road Seat Assembly	108,99	147,14	38,15
6	HL Road Seat Assembly	145,87	196,92	51,05
7	LL Touring Seat Assembly	98,77	133,34	34,57
8	ML Touring Seat Assembly	108,99	147,14	38,15
9	HL Touring Seat Assembly	145,87	196,92	51,05
10	HL Road Frame - Black, 58	1059,31	1431,50	372,19

Prioridad de Operador



- La multiplicación y la división tienen prioridad sobre la suma y la resta.
- Los operadores de idéntica prioridad se evalúan de izquierda a derecha.
- Los paréntesis se utilizan para forzar evaluaciones prioritarias y para clarificar sentencias.

Prioridad de Operador

SELECT Name, StandardCost, 5 * StandardCost + 100 **FROM** Production.Product

	Name	StandardCost	operacion
1	LL Mountain Seat Assembly	98,77	593,85
2	ML Mountain Seat Assembly	108,99	644,95
3	HL Mountain Seat Assembly	145,87	829,35
4	LL Road Seat Assembly	98,77	593,85
5	ML Road Seat Assembly	108,99	644,95
6	HL Road Seat Assembly	145,87	829,35
7	LL Touring Seat Assembly	98,77	593,85
8	ML Touring Seat Assembly	108,99	644,95
9	HL Touring Seat Assembly	145,87	829,35
10	HI Road Frame - Black 58	1059.31	5396 55

Uso de Paréntesis

SELECT Name, (5* StandardCost/100) + ListPrice **FROM** Production.Product

	Name	precioFinal
1	LL Mountain Seat Assembly	138,2785
2	ML Mountain Seat Assembly	152,5895
3	HL Mountain Seat Assembly	204,2135
4	LL Road Seat Assembly	138,2785
5	ML Road Seat Assembly	152,5895
6	HL Road Seat Assembly	204,2135
7	LL Touring Seat Assembly	138,2785
8	ML Touring Seat Assembly	152,5895
9	HL Touring Seat Assembly	204,2135

Eliminación de Filas Duplicadas

Elimine filas duplicadas mediante la palabra clave DISTINCT de la cláusula SELECT.

SELECT DISTINCT ProductSubcategoryID **FROM** Production.Product;

Recuperar el primer conjunto de filas de un resultado

■ TOP (expression) [PERCENT] [WITH TIES]

SELECT TOP 10 ListPrice **FROM** Production.Product ORDER BY ListPrice DESC

(10 filas afectadas)

SELECT TOP 10 WITH TIES ListPrice **FROM** Production.Product ORDER BY ListPrice DESC

(13 filas afectadas)

Contar cantidad de registros

COUNT ({ [ALL | DISTINCT] expression] | * })

Contar las filas mediante la palabra clave COUNT(*) de la cláusula SELECT.

SELECT count (*)
FROM Production.Product;

SELECT count (**DISTINCT** ProductSubcategoryID) **FROM** Production.Product;

Fin Tema