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1. La suma de las cantidades e importe total de todas las entregas realizadas durante el 97

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays a SQL query:

```
select sum (cantidad) as total,  
sum ((1+m.impuesto/100)*m.precio*cantidad)  
from entregan e join materiales m  
on e.clave = m.clave  
where year(fecha) = 1997
```

The bottom pane shows the results of the query in a grid format. The first row is highlighted, showing a total of 2,860 and a sum of 1,118,484.475.

	123 total	123 sum ((1+m.impuesto/100)*m.precio*cantidad)
1	2,860	1,118,484.475

The status bar indicates that 1 row(s) were fetched in 0.003s on 2025-05-12 at 14:12:47.

2. Para cada proveedor, obtener la razón social del proveedor, número de entregas e importe total de las entregas realizadas.

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays a SQL query:

```
select p.razonsocial as 'Proveedor',  
count(e.clave) as 'NumeroEntregas',  
sum((1 + m.impuesto / 100) * m.precio * e.cantidad) as 'ImporteTotal'  
from entregan e  
join materiales m on e.clave = m.clave  
join proveedores p on e.RFC = p.RFC  
GROUP BY p.razonsocial;
```

The bottom pane shows the results of the query in a grid format. The first row is highlighted, showing the provider 'Alvin' with 10 deliveries and a total import of 579,429.4530142022.

	A-Z Proveedor	123 NumeroEntregas	123 ImporteTotal
1	Alvin	10	579,429.4530142022
2	Cecoferre	11	495,450.55
3	Comex	10	528,845.625
4	La Ferre	12	843.302.225

The status bar indicates that 8 row(s) were fetched in 0.010s (0.003s fetch) on 2025-05-13 at 09:26:40.

3. Por cada material obtener la clave y descripción del material, la cantidad total entregada, la mínima cantidad entregada, la máxima cantidad entregada, el importe total de las entregas de aquellos materiales en los que la cantidad promedio entregada sea mayor a 400.

The screenshot shows a SQL query in a text editor and its results in a grid view. The query calculates various metrics for materials based on delivery records.

```

select m.clave, m.descripcion,
count(e.clave) as 'TotalEntregado',
min(e.cantidad) as 'MinimoEntregado',
max(e.cantidad) as 'MaximoEntregado',
SUM((1 + m.impuesto / 100) * m.precio * e.cantidad) AS 'ImporteTotal'
from entregan e
join materiales m on e.clave = m.clave
GROUP by m.clave, m.descripcion

```

The results are displayed in a table with the following columns: clave, descripcion, TotalEntregado, MinimoEntregado, MaximoEntregado, and ImporteTotal. The table shows 44 rows of data.

	clave	descripcion	TotalEntregado	MinimoEntregado	MaximoEntregado	ImporteTotal
1	1,000	Varilla 3/16	2	165	254	46,0
2	1,010	Varilla 4/32	2	523	528	134,764.4
3	1,020	Varilla 3/17	2	8	582	86,0
4	1,030	Varilla 4/33	2	202	295	82,514.4

4. Para cada proveedor, indicar su razón social y mostrar la cantidad promedio de cada material entregado, detallando la clave y descripción del material, excluyendo aquellos proveedores para los que la cantidad promedio sea menor a 500.

The screenshot shows a SQL query in a text editor and its results in a grid view. The query calculates the average quantity of materials delivered by each supplier, excluding those with an average quantity less than 500.

```

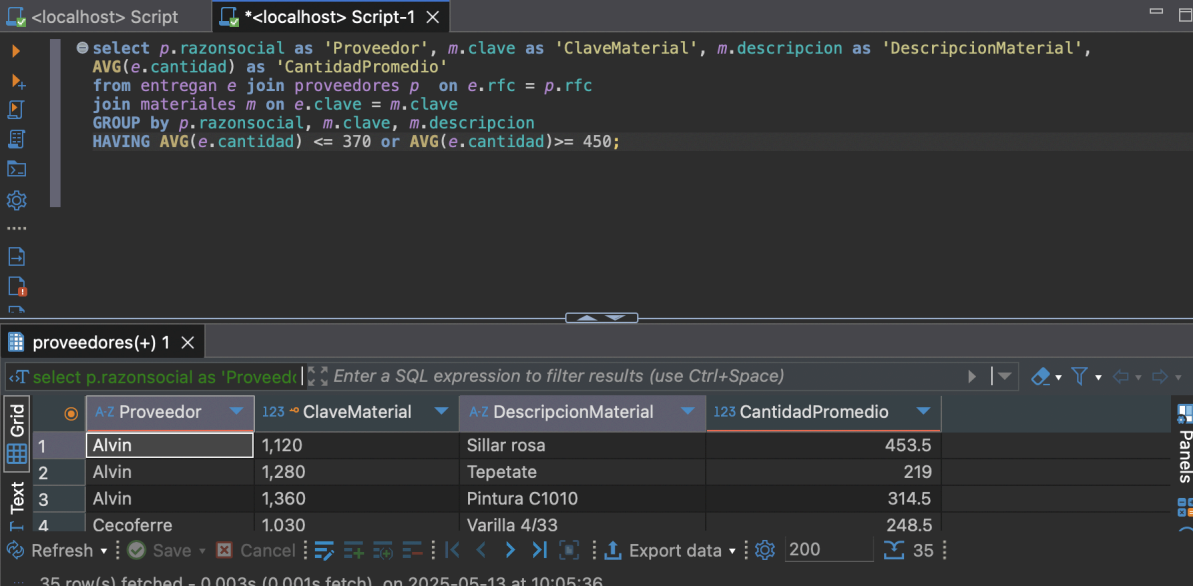
select p.razonsocial as 'Proveedor', m.clave as 'ClaveMaterial', m.descripcion as 'DescripcionMaterial',
AVG(e.cantidad) as 'CantidadPromedio'
from entregan e join proveedores p on e.rfc = p.rfc
join materiales m on e.clave = m.clave
GROUP by p.razonsocial, m.clave, m.descripcion
HAVING AVG(e.cantidad) >= 500;

```

The results are displayed in a table with the following columns: Proveedor, ClaveMaterial, DescripcionMaterial, and CantidadPromedio. The table shows 8 rows of data.

	Proveedor	ClaveMaterial	DescripcionMaterial	CantidadPromedio
1	Cecoferre	1,270	Tezontle	526
2	Comex	1,050	Varilla 4/34	563
3	La Ferre	1,100	Block	582.5
4	La Ferre	1,260	Gravilla	545.5

5. Mostrar en una sola consulta los mismos datos que en la consulta anterior pero para dos grupos de proveedores: aquellos para los que la cantidad promedio entregada es menor a 370 y aquellos para los que la cantidad promedio entregada sea mayor a 450.



The screenshot shows a SQL IDE with a query editor and a results panel. The query is a SELECT statement with a HAVING clause filtering by average quantity. The results panel shows a table with 4 rows and 5 columns: Proveedor, ClaveMaterial, DescripcionMaterial, CantidadPromedio, and an unlabeled column.

```

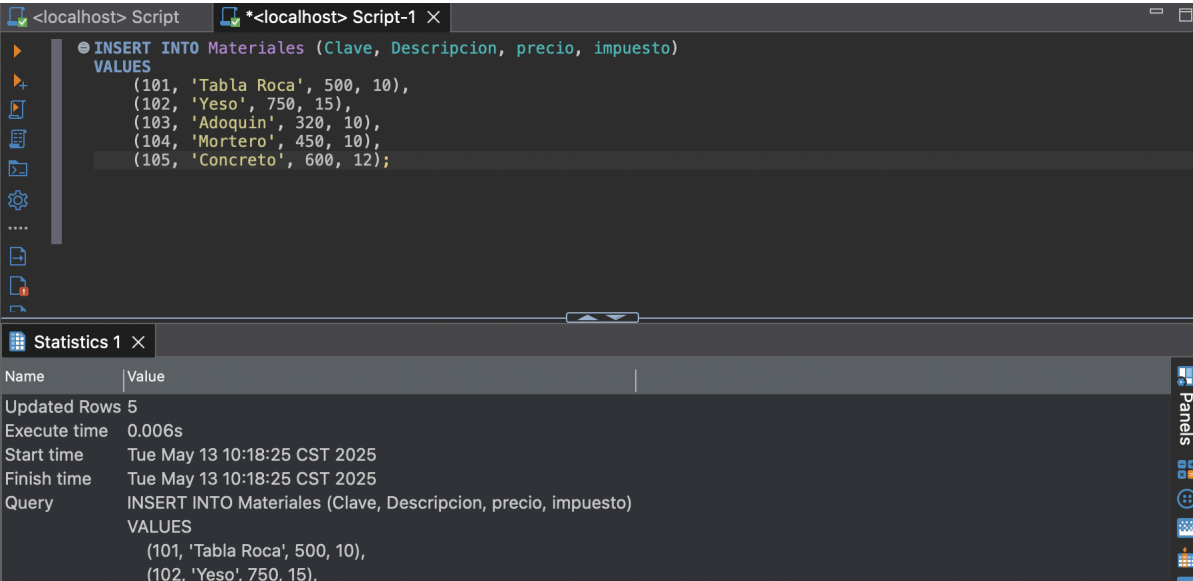
select p.razonsocial as 'Proveedor', m.clave as 'ClaveMaterial', m.descripcion as 'DescripcionMaterial',
AVG(e.cantidad) as 'CantidadPromedio'
from entregan e join proveedores p on e.rfc = p.rfc
join materiales m on e.clave = m.clave
GROUP by p.razonsocial, m.clave, m.descripcion
HAVING AVG(e.cantidad) <= 370 or AVG(e.cantidad)>= 450;

```

	A-Z Proveedor	123 ClaveMaterial	A-Z DescripcionMaterial	123 CantidadPromedio
1	Alvin	1,120	Sillar rosa	453.5
2	Alvin	1,280	Tepetate	219
3	Alvin	1,360	Pintura C1010	314.5
4	Cecoferre	1.030	Varilla 4/33	248.5

35 row(s) fetched - 0.003s (0.001s fetch), on 2025-05-13 at 10:05:36

Insertión de datos:



The screenshot shows a SQL IDE with an INSERT query and a statistics panel. The query inserts data into the 'Materiales' table. The statistics panel shows the execution details of the query.

```

INSERT INTO Materiales (Clave, Descripcion, precio, impuesto)
VALUES
(101, 'Tabla Roca', 500, 10),
(102, 'Yeso', 750, 15),
(103, 'Adoquin', 320, 10),
(104, 'Mortero', 450, 10),
(105, 'Concreto', 600, 12);

```

Name	Value
Updated Rows	5
Execute time	0.006s
Start time	Tue May 13 10:18:25 CST 2025
Finish time	Tue May 13 10:18:25 CST 2025
Query	INSERT INTO Materiales (Clave, Descripcion, precio, impuesto) VALUES (101, 'Tabla Roca', 500, 10), (102, 'Yeso', 750, 15), (103, 'Adoquin', 320, 10)

6. Clave y descripción de los materiales que nunca han sido entregados.

The screenshot shows a SQL query in a script editor: `Select m.clave, m.descripcion from materiales m where m.clave not in (SELECT e.Clave FROM Entregan e);`. Below the editor, the results are displayed in a table titled 'materiales 1'. The table has two columns: 'clave' and 'descripcion'. The data rows are: (102, 'Yeso'), (103, 'Adoquin'), (104, 'Mortero'), (105, 'Concreto'), and (2,000, 'Jabón'). The interface includes a toolbar with icons for grid, text, and other views, and a status bar at the bottom with 'Refresh', 'Save', 'Cancel', and 'Export data' buttons.

	clave	descripcion
2	102	Yeso
3	103	Adoquin
4	104	Mortero
5	105	Concreto
6	2,000	Jabón

7. Razón social de los proveedores que han realizado entregas tanto al proyecto 'Vamos México' como al proyecto 'Querétaro Limpio'.

The screenshot shows a SQL query in a script editor: `Select p.razonsocial as 'Proveedor' from proveedores p join entregan e on p.rfc = e.rfc join proyectos pr on e.numero = pr.numero where pr.denominacion IN ('Vamos México', 'Querétaro Limpio') GROUP by razonsocial`. Below the editor, the results are displayed in a table titled 'proveedores 1'. The table has one column: 'Proveedor'. The data rows are: 'Alvin', 'Cecoferre', 'La fragua', and 'Tubasa'. The interface includes a toolbar with icons for grid, text, and other views, and a status bar at the bottom with 'Refresh', 'Save', 'Cancel', and 'Export data' buttons.

Proveedor
Alvin
Cecoferre
La fragua
Tubasa

8. Descripción de los materiales que nunca han sido entregados al proyecto 'CIT Yucatán'.

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays a SQL query: `SELECT m.clave, m.descripcion as 'Descripcion' FROM materiales m WHERE m.clave not IN (SELECT e.clave FROM entregan e JOIN proyectos pr ON e.numero = pr.numero WHERE pr.denominacion = 'CIT Yucatán');`. The bottom pane shows the results in a grid view for the query 'materiales 1'. The grid has two columns: 'clave' and 'Descripcion'. The results are as follows:

	clave	Descripcion
1	101	Tabla Roca
2	102	Yeso
3	103	Adoquin
4	104	Mortero
5	105	Concreto

The bottom status bar shows 'Refresh', 'Save', 'Cancel', and 'Export data' buttons, along with a row count of 46.

9. Razón social y promedio de cantidad entregada de los proveedores cuyo promedio de cantidad entregada es mayor al promedio de la cantidad entregada por el proveedor con el RFC 'VAGO780901'.

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays a SQL query: `SELECT p.razonsocial as 'Razon Social', avg(e.cantidad) as 'Promedio Entregas' FROM proveedores p JOIN entregan e ON p.rfc = e.rfc GROUP BY p.razonsocial HAVING AVG(e.cantidad) > (SELECT AVG(e1.cantidad) FROM entregan e1 WHERE e1.rfc = 'VAGO780901');`. The bottom pane shows the results in a grid view for the query 'proveedores 1'. The grid has two columns: 'Razon Social' and 'Promedio Entregas'. The results are as follows:

	Razon Social	Promedio Entregas
1		
2		
3		
4		
5		

The bottom status bar shows 'Refresh', 'Save', 'Cancel', and 'Export data' buttons, along with a row count of 0.

10. RFC, razón social de los proveedores que participaron en el proyecto 'Infonavit Durango' y cuyas cantidades totales entregadas en el 2000 fueron mayores a las cantidades totales entregadas en el 2001.

The screenshot shows a SQL client interface with a script editor and a results grid. The script editor contains a SQL query that selects the RFC and Razon Social of providers who participated in the 'Infonavit Durango' project, where the total quantity delivered in 2000 is greater than in 2001. The results grid shows one row with the RFC 'GGGG800101' and the Razon Social 'Tabiquera del centro'.

```
SELECT p.rfc as 'RFC', p.razonsocial as 'Razon Social'
FROM proveedores p
JOIN entregan e ON p.rfc = e.rfc
JOIN proyectos pr ON e.numero = pr.numero
WHERE pr.denominacion = 'Infonavit Durango'
GROUP BY p.rfc, p.razonsocial
HAVING
SUM(CASE WHEN YEAR(e.Fecha) = 2000 THEN e.Cantidad ELSE 0 END) >
SUM(CASE WHEN YEAR(e.Fecha) = 2001 THEN e.Cantidad ELSE 0 END);
```

	A-Z RFC	A-Z Razon Social
1	GGGG800101	Tabiquera del centro

1 row(s) fetched - 0.003s, on 2025-05-13 at 10:49:55