

TALLER No. 03 – CONSULTAS AGRUPADAS

PRESENTADO POR
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1. Liste el promedio de salario de todos los empleados

```
select avg(SALARY ) as salario_promedio_empleados  
from s_EMP;
```

		SALARIO_PROMEDIO_EMPLEADOS
▶	1	1255,08

2. Liste el máximo salario de todos los empleados

```
select max (salary) as salario_maximo  
from s_EMP;
```

		SALARIO_MAXIMO
▶	1	2500

3. Liste el número de empleados que ganan comisión

```
select count (commission_pct) as comision_empleados  
from s_EMP;
```

		COMISION_EMPLEADOS
▶	1	5

4. Liste el número total de empleados de la compañía

```
select count (id) as empleados_compañia  
from s_EMP;
```

		EMPLEADOS_COMPANIA
▶	1	25

5. Liste el número de ítem por orden

```
select ord_id, sum (item_id) as item_por_orden  
from s_item  
group by ord_id;
```

		ORD_ID	ITEM_POR_ORDEN
►	1	97	3
	2	98	1
	3	99	10
	4	100	28
	5	101	28
	6	102	3
	7	103	3
	8	104	10
	9	105	6
	10	106	21
	11	107	15
	12	108	28
	13	109	28
	14	110	3
	15	111	3
	16	112	1

6. Liste el número de clientes por cada uno de los representantes de ventas

```
select e.id,e.first_name||' '||e.last_name as
Nombre_Representante, count(c.sales_rep_id) as Numero_clientes
from s_customer C join s_emp e
on e.id=c.sales_rep_id
group by e.first_name, e.last_name,e.id;
```

		ID	NOMBRE_REPRESENTANTE	NUMERO_CLIENTES
►	1	12	Henry Giljum	2
	2	11	Colin Magee	4
	3	13	Yasmin Sedeghi	1
	4	14	Mai Nguyen	2
	5	15	Andre Dumas	5

7. Liste el número de departamentos por región

```
select r.name, count (d.region_id) as numero_departamentos
from s_dept D join s_region R
on r.id = d.region_id
group by r.name;
```

		NAME	NUMERO_DEPARTAMENTOS
►	1	North America	4
	2	South America	2
	3	Africa / Middle East	2
	4	Europe	2
	5	Asia	2

8. Liste el salario (sum(salario) + sum(salario)*(comisión)/100) de cada representante de ventas

```
select e.first_name||' '||e.last_name as Nombres, (sum(e.salary) + sum
((e.salary)*(e.commission_pct)/100)) as Lista_Salario
from s_emp e join s_salary s
on e.manager_id = '3'
group by e.first_name,e.last_name,e.commission_pct;
```

		NOMBRES	LISTA_SALARIO
►	1	Mai Nguyen	526125
	2	Henry Giljum	502875
	3	Colin Magee	462000
	4	Yasmin Sedeghi	499950
	5	Andre Dumas	511125

9. Liste el promedio de salario por nombre de cargo

```
select t.title as Cargo_Empleado, avg (e.salary) as promedio_salario
from s_emp e join s_title t
on t.title = e.title
group by t.title;
```

		CARGO_EMPLEADO	PROMEDIO_SALARIO
►	1	Sales Representative	1476
	2	VP, Administration	1550
	3	President	2500
	4	Warehouse Manager	1231,4
	5	VP, Operations	1450
	6	VP, Sales	1400
	7	Stock Clerk	949
	8	VP, Finance	1450

10. Liste por producto las veces que ha sido ordenado

```
select p.name , count (i.quantity) as Cantidad_Ordenada
from s_product p join s_item i
on i.product_id = p.id
group by p.name,i.product_id;
```

		NAME	CANTIDAD_ORDENADA
►	1	Bunny Boot	2
	2	Ace Ski Boot	1
	3	Pro Ski Boot	1
	4	Bunny Ski Pole	1
	5	Ace Ski Pole	1
	6	Pro Ski Pole	1
	7	Junior Soccer Ball	3
	8	World Cup Soccer Ball	3
	9	World Cup Net	3
	10	Black Hawk Knee Pads	3
	11	Black Hawk Elbow Pads	3
	12	Grand Prix Bicycle	4
	13	Himalaya Bicycle	2
	14	Grand Prix Bicycle Tires	3
	15	Himalaya Tires	1
	16	New Air Pump	2
	17	Slaker Water Bottle	2
	18	Safe-T Helmet	2
	19	Alexeyer Pro Lifting Bar	2
	20	Pro Curling Bar	1
	21	Prostar 10 Pound Weight	2
	22	Prostar 80 Pound Weight	2
	23	Prostar 100 Pound Weight	2
	24	Major League Baseball	2
	25	Chapman Helmet	3
	26	Griffey Glove	2
	27	Alomar Glove	2

11. Liste el promedio de salario, el máximo, el total del salario y el número de empleados de cada uno de los nombres de departamentos de la compañía

```
select avg (e.salary) as promedio_salario,max (e.salary) as maximo_salario,
sum (e.salary)as total_salario, d.name,e.id as numero_de_empleados
from s_emp e join s_dept d
on e.dept_id = d.id
group by d.name,e.id;
```

		PROMEDIO_SALARIO	MAXIMO_SALARIO	TOTAL_SALARIO	NAME	NUMERO_DE_EMPLEADOS
►	1	1100	1100	1100	Operations	8
	2	1450	1450	1450	Sales	15
	3	940	940	940	Operations	17
	4	1300	1300	1300	Operations	9
	5	1400	1400	1400	Sales	11
	6	1525	1525	1525	Sales	14
	7	750	750	750	Operations	20
	8	1490	1490	1490	Sales	12
	9	1200	1200	1200	Operations	18
	10	860	860	860	Operations	24

12. Liste el número de clientes por calificación del crédito (credit rating).

```
select count (c.name)as numero_clientes ,c.credit_rating as
calificacion_de_credito
from s_customer c
group by c.credit_rating;
```

		NUMERO_CLIENTES	CALIFICACION_DE_CREDITO
►	1	9	EXCELLENT
	2	3	GOOD
	3	3	POOR

13. Liste el promedio de salario total por nombre departamento y nombre de cargo

```
select avg (e.salary) as salario_total ,d.name as
mombre_departamento ,e.title as mombre_cargo
from s_emp e join s_dept d
on d.id = e.dept_id
group by d.name,e.title;
```

		SALARIO_TOTAL	MOMBRE_DEPARTAMENTO	MOMBRE_CARGO
►	1	1450	Operations	VP, Operations ...
	2	1550	Administration	VP, Administration ...
	3	1231,4	Operations	Warehouse Manager ...
	4	795	Sales	Stock Clerk ...
	5	1400	Sales	VP, Sales ...
	6	966,111111111111	Operations	Stock Clerk ...
	7	2500	Administration	President ...
	8	1450	Finance	VP, Finance ...
	9	1476	Sales	Sales Representative ...

14. Liste el promedio de salario total por nombre de cargo y nombre de Departamento

```
select avg (e.salary) as promedio_salario,e.title as nombre_cargo , d.name
as nombre_departamento
from s_emp e join s_dept d
on d.id = e.dept_id
group by d.name,e.title;
```

		PROMEDIO_SALARIO	NOMBRE_CARGO	NOMBRE_DEPARTAMENTO
▶	1	1450	VP, Operations	Operations
	2	1550	VP, Administration	Administration
	3	1231,4	Warehouse Manager	Operations
	4	795	Stock Clerk	Sales
	5	1400	VP, Sales	Sales
	6	966,111111111111	Stock Clerk	Operations
	7	2500	President	Administration
	8	1450	VP, Finance	Finance
	9	1476	Sales Representative	Sales

15. Liste el promedio anual del salario y numero de trabajadores de todos los cargos (nombres) que tienen más de 2 empleados

```
select e.title,avg(s.payment),count(distinct(e.id))
from s_emp e join s_salary s
on e.id=s.id
group by e.title
having count(distinct(e.id)) > 2;
```

		TITLE	AVG(S.PAYMENT)	COUNT(DISTINCT(E.ID))
▶	1	Sales Representative	868,116666666667	5
	2	Warehouse Manager	470,15	5
	3	Stock Clerk	788,25	10

16. Liste la suma de salarios anuales y el número de empleados de todos los departamentos(nombres) con mas de un empleado.

```
select sum (s.payment)as salarios_anuales, round (count(e.id)/12)as
numero_empleados, d.name as departamentos
from s_emp e join s_salary s on e.id= s.id join s_dept d
on e.dept_id = d.id
group by d.name
having (count(e.id) /12>1);
```

		SALARIOS_ANUALES	NUMERO_EMPLEADOS	DEPARTAMENTOS
▶	1	352800	2	Administration
	2	161546	7	Sales
	3	246340	15	Operations

17. Liste por cargo (nombres) el total de nomina anual superior a 5000. Con

Etiquetas

```
select e.title as nombre, sum (e.salary*12) as nomina_anual
from s_emp e
group by e.title;
```

		NOMBRE	NOMINA_ANUAL
►	1	Sales Representative ...	88560
	2	VP, Administration ...	18600
	3	President ...	30000
	4	Warehouse Manager ...	73884
	5	VP, Operations ...	17400
	6	VP, Sales ...	16800
	7	Stock Clerk ...	113880
	8	VP, Finance ...	17400

18. Liste los productos que han sido ordenados más de dos veces (muestre el número de veces)

```
select i.product_id as Id_Producto , p.name as Nombre_Producto, count
(i.ord_id) as Cantidad_Ordenada
from s_item i JOIN s_product p ON p.id= i.product_id
group by i.product_id, p.name
having count (i.ord_id) > 2 ;
```

		ID_PRODUCTO	NOMBRE_PRODUCTO	CANTIDAD_ORDENADA
	1	20201	World Cup Net ...	3
	2	20510	Black Hawk Knee Pads ...	3
	3	50273	Chapman Helmet ...	3
	4	30321	Grand Prix Bicycle ...	4
►	5	20108	World Cup Soccer Ball ...	3
	6	20106	Junior Soccer Ball ...	3
	7	20512	Black Hawk Elbow Pads ...	3
	8	30421	Grand Prix Bicycle Tires ...	3

19. Liste el numero de clientes por región

```
select r.name ,c.region_id ,count (c.region_id)as clientes_por_region
from s_customer c join s_region r
on c.region_id= r.id
group by c.region_id , r.name;
```

		NAME	REGION_ID	CLIENTES_POR_REGION
►	1	North America ...	1	4
	2	South America ...	2	2
	3	Africa / Middle East ...	3	2
	4	Asia ...	4	3
	5	Europe ...	5	4

20. Por región y producto ordenado liste los clientes que han hecho más de dos Ordenes

```
select r.name || ' ' || p.name as Region_Producto, c.name as Nombre_Cliente,
count (o.id) as Numero_de_Ordenes
from s_region r join s_customer c on r.id = c.region_id join s_order o on
c.id = o.customer_id
join s_item i on o.id = i.order_id
join s_product p on i.product_id = p.id
group by c.id, c.name, p.name, r.name
having count (o.customer_id) > 2
order by r.name;
```

	REGION_PRODUCTO	NOMBRE_CLIENTE	NUMERO_DE_ORDENES
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21. Liste los empleados cuyo promedio anual de salario supera los 3000

```
select e.first_name, e.last_name, avg (e.salary)*12 as Salario
from s_emp e
group by e.first_name, e.last_name, e.salary
having avg (e.salary)*12 > 3000;
```

	FIRST_NAME	LAST_NAME	SALARIO
1	Roberta	Menchu	15000
2	Yasmin	Sedeghi	18180
3	Mai	Nguyen	18300
4	Radha	Patel	9540
5	Midori	Nagayama	16800
6	Mark	Quick-To-See	17400
7	Audry	Ropeburn	18600
8	Andre	Dumas	17400
9	Carmen	Velasquez	30000
10	Ben	Biri	13200
11	Colin	Magee	16800
12	Henry	Giljum	17880
13	Akira	Nozaki	14400
14	Vikram	Patel	9540
15	Marta	Havel	15684
16	LaDoris	Ngao	17400
17	Molly	Urguhart	14400
18	Chad	Newman	9000
19	Alexander	Markarian	10200
20	Antoinette	Catchpole	15600
21	Elena	Maduro	16800
22	Eddie	Chang	9600
23	Bela	Dancs	10320
24	George	Smith	11280
25	Sylvie	Schwartz	13200

22. Por orden liste el total del valor, el promedio del valor y el número de productos expedidos en el 2008

```
select p.name,o.date_ordered
from (s_product p join s_item i on p.id = i.product_id) join s_ord o on
o.id=i.ord_id
where o.date_ordered = '31/08/2008';
```

	NAME	DATE_ORDERED
--	------	--------------

23. Órdenes que tienen mas de 4 productos

```
select count (product_id) as Id_Product, ord_id as Producto_Ordenado
from s_item i
group by ord_id
having count (product_id) > 4;
```

	ID_PRODUCT	PRODUCTO_ORDENADO
► 1	7	100
2	7	101
3	6	106
4	5	107
5	7	108
6	7	109

24. enlistar todas las órdenes que tenga más de 4 items

```
select ord_id as Ordenes, count (item_id) as Item
from s_item
group by ord_id
having count (item_id) > 4;
```

	ORDENES	ITEM
► 1	100	7
2	101	7
3	106	6
4	107	5
5	108	7
6	109	7