

# List of all employees and their current compensation due, grouped by employee type, and resorted by highest salary

```
SELECT e.EmployeeID,  
       CASE  
         WHEN h.HourlyRate IS NOT NULL THEN h.HourlyRate  
         WHEN s.Anual IS NOT NULL THEN s.Anual  
         WHEN s2.CommissionRate IS NOT NULL THEN s2.CommissionRate  
         ELSE 0  
       END AS Compensation  
FROM Employee e  
LEFT JOIN Hourly h  
ON e.EmployeeID = h.EmployeeID  
LEFT JOIN Salary s  
ON e.EmployeeID = s.EmployeeID  
LEFT JOIN SalesRep s2  
ON e.EmployeeID = s2.EmployeeID  
ORDER BY Compensation DESC
```

108 %

Results Messages

	EmployeeID	Compensation
1	12	60000
2	6	52000
3	2	50000
4	3	45000
5	5	15
6	4	13
7	1	12
8	9	12
9	8	0.15
10	11	0.12
11	7	0.1
12	10	0.08

List all customer/employee events during a one month period.  
Sort by date, resort by employee

```
SELECT *  
FROM CustomerEmployeeEvent  
WHERE DateTime >= DATEADD(month, DATEDIFF(month, 0, GETDATE()), 0)  
AND DateTime < DATEADD(month, DATEDIFF(month, 0, GETDATE()) + 1, 0)  
ORDER BY  
DateTime ASC,  
EmployeeID ASC
```

108 %

Results Messages

	CustomerID	EmployeeID	EventDesc	DateTime
1	1	12	Meeting	2023-11-01 09:00:00.000
2	3	22	Demo	2023-11-04 13:00:00.000
3	2	8	Call	2023-11-11 19:30:00.000
4	6	23	Meeting	2023-11-20 16:30:00.000
5	4	15	Meeting	2023-11-23 10:30:00.000
6	5	7	email	2023-11-29 15:00:00.000

List of all customer orders, the customer's full name (concat), sales rep credited with the order, and the individual products within each order, grouped by sales rep and sorted by highest sales (number of units or amount sales)

```
SELECT cpo.OrderNo, CONCAT(c.FirstName, ' ', c.LastName) AS CustomerName, e.FirstName as SalesRepName, p.Name as ProductName, NetSale
FROM CustomerProductOrder cpo
JOIN Customer c
ON c.CustomerID = cpo.CustomerID
JOIN Employee e
ON cpo.SalesRep = e.EmployeeID
JOIN Product p
ON p.ProductID = cpo.ProductID
ORDER BY e.FirstName, NetSale DESC
```

108 %

Results Messages

	OrderNo	CustomerName	SalesRepName	ProductName	NetSale
1	5	Whoopi Hernandez	Brady	Mary	375.00
2	3	Scott Garrett	Driscoll	Regina	400.00
3	7	Blossom Moses	Hedley	Zia	280.00
4	2	Carson Neal	Nola	Marah	230.00
5	4	Faith Norris	Nola	Cecilia	175.00
6	6	Xena Ochoa	Nola	Imelda	30.00

List of all Sales Reps with their total number of orders sold, total number of units sold – and highest, lowest, average dollar value generated, sorted by Sales Rep, resorted as highest to lowest orders, units

```
SELECT c.SalesRep, SUM(c.Quantity) AS TotalProductSold, COUNT(c.OrderNo) AS TotalOrders
FROM SalesRep r
LEFT JOIN CustomerProductOrder c
ON r.EmployeeID = c.SalesRep
GROUP BY c.SalesRep
ORDER BY TotalProductSold DESC, TotalOrders DESC
```

108 %

Results Messages

	SalesRep	TotalProductSold	TotalOrders
1	7	31	3
2	8	20	1
3	11	15	1
4	10	14	1

# Result set reporting most and least popular product sold, with their total units and dollar value generated

```
SELECT p.ProductID, p.Name, SUM( c.Quantity) AS TotalUnitSold, SUM( c.NetSale) AS TotalSale
FROM Product p
LEFT JOIN
CustomerProductOrder c
ON p.ProductID = c.ProductID
GROUP BY p.ProductID, p.Name
ORDER BY
TotalUnitSold DESC, TotalSale DESC
```

108 %

Results Messages

	ProductID	Name	TotalUnitSold	TotalSale
1	1	Marah	23	230.00
2	2	Regina	20	400.00
3	4	Mary	15	375.00
4	6	Zia	14	280.00
5	3	Cecilia	5	175.00
6	5	Imelda	3	30.00
7	7	Heidi	NULL	NULL
8	8	Maile	NULL	NULL
9	9	Amity	NULL	NULL
10	10	Mira	NULL	NULL
11	11	Jescie	NULL	NULL
12	12	Jena	NULL	NULL
13	13	Lacota	NULL	NULL
14	14	Hadassah	NULL	NULL
15	15	Pearl	NULL	NULL
16	16	Halla	NULL	NULL

Result set listing all customers by last name, all the products they have ordered and total dollars spent; sorted by customer and highest dollar value

```
SELECT c.CustomerID, c.LastName, SUM(p.Quantity) AS TotalUnitsOrdered, SUM(p.NetSale) AS TotalDollarsSpent
FROM Customer c
JOIN CustomerProductOrder p
ON c.CustomerID = p.CustomerID
GROUP BY c.CustomerID, c.LastName
ORDER BY c.LastName, TotalDollarsSpent DESC
```

108 %

Results Messages

	CustomerID	LastName	TotalUnitsOrdered	TotalDollarsSpent
1	5	Garrett	20	400.00
2	4	Hernandez	15	375.00
3	8	Moses	14	280.00
4	3	Neal	23	230.00
5	7	Norris	5	175.00
6	10	Ochoa	3	30.00

List all customers that have spent more than the average.

```
SELECT CustomerID, NetSale
FROM CustomerProductOrder
WHERE NetSale > ( SELECT AVG(NetSale) AS AverageSpent
FROM CustomerProductOrder )
```

108 %

Results Messages

	CustomerID	NetSale
1	5	400.00
2	4	375.00
3	8	280.00

List Sales reps who have sold more than average.

```
SELECT SalesRep, NetSale
FROM CustomerProductOrder
WHERE NetSale > ( SELECT AVG(NetSale) AS AverageSales
FROM CustomerProductOrder )
```

108 %

Results Messages

	SalesRep	NetSale
1	8	400.00
2	11	375.00
3	10	280.00



Use DateAdd (3 days) to list customer orders by name, order number, date of order and date of delivery

```
SELECT c.CustomerID, c.LastName, o.OrderNo, o.OrderDate,  
DATEADD(DAY, 3, o.OrderDate) AS DevliveryDate  
FROM Customer c  
JOIN CustomerProductOrder o  
ON c.CustomerID = o.CustomerID  
ORDER BY o.OrderDate
```

108 %

Results Messages

	CustomerID	LastName	OrderNo	OrderDate	DevliveryDate
1	3	Neal	2	2023-11-01	2023-11-04
2	8	Moses	7	2023-11-01	2023-11-04
3	7	Norris	4	2023-11-11	2023-11-14
4	10	Ochoa	6	2023-11-12	2023-11-15
5	4	Hernandez	5	2023-11-19	2023-11-22
6	5	Garrett	3	2023-11-21	2023-11-24