James Livingstone
11/29/22

#1

```sql
SELECT DATENAME(WEEKDAY,OrderDate) AS "Day of the Week",
         SUM(SubTotal) AS "Total Revenue",
         COUNT(SalesOrderID) AS "Number of Orders",
         AVG(SubTotal) AS "Revenue per Order"
FROM Sales.SalesOrderHeader
WHERE DATENAME(YY, OrderDate) = 2012
GROUP BY  DATENAME(WEEKDAY,OrderDate)
ORDER BY [Revenue per Order] DESC;
```

Results | Messages

	Day of the Week	Total Revenue	Number of Orders	Revenue per Order
1	Sunday	7266760.7028	639	11372.0824
2	Tuesday	5999143.0718	618	9707.3512
3	Wednesday	4161627.6385	489	8510.4859
4	Saturday	4530928.4594	545	8313.6302
5	Friday	4570299.305	577	7920.796
6	Monday	4303006.4943	589	7305.6137
7	Thursday	2692535.6542	458	5878.8988

DESKTOP-FGQ1OBR (15.0 RTM) | DESKTOP-FGQ1OBR\fired ... | AdventureWorks2017 | 00:00:00 | 7 rows

James Livingstone
11/29/22

#2

```sql
SELECT DISTINCT SSO.SpecialOfferID, SSO.Description, SSO.EndDate
FROM Sales.SpecialOffer AS SSO
        LEFT JOIN Sales.SpecialOfferProduct AS SSOP ON SSO.SpecialOfferID =
SSOP.SpecialOfferID
WHERE EndDate > 2012-01-01 AND SSOP.SpecialOfferID IS NULL
GROUP BY SSO.SpecialOfferID,Description, EndDate, DiscountPct
HAVING DiscountPct > 0;
```

	SpecialOfferID	Description	EndDate
1	6	Volume Discount over 60	2014-05-30 00:00:00.000

DESKTOP-FGQ1OBR (15.0 RTM) | DESKTOP-FGQ1OBR\fired ... | AdventureWorks2017 | 00:00:00 | 1 rows

James Livingstone
11/29/22

#3

```sql
SELECT TerritoryID,
            COUNT(SalesOrderID) AS TotalOrders,
            CONCAT(CONVERT(INT,ROUND((CAST(COUNT(case when OnlineOrderFlag = 0 then 1
end) AS DECIMAL)/CAST(COUNT(OnlineOrderFlag) AS DECIMAL)) *100,0)), + '%') AS
"OfflineOrders",
            CONCAT(CONVERT(INT,ROUND((CAST(COUNT(case when OnlineOrderFlag = 1 then 1
end) AS DECIMAL)/CAST(COUNT(OnlineOrderFlag) AS DECIMAL)) *100,0)), + '%') AS
"OnlineOrders"
FROM Sales.SalesOrderHeader
GROUP BY TerritoryID
ORDER BY TerritoryID;
```

	TerritoryID	TotalOrders	OfflineOrders	OnlineOrders
1	1	4594	12%	88%
2	2	352	97%	3%
3	3	385	98%	2%
4	4	6224	12%	88%
5	5	486	97%	3%
6	6	4067	17%	83%
7	7	2672	7%	93%
8	8	2623	5%	95%
9	9	6843	2%	98%
10	10	3219	6%	94%

DESKTOP-FGQ1OBR (15.0 RTM) | DESKTOP-FGQ1OBR\fired ... | AdventureWorks2017 | 00:00:00 | 10 rows

James Livingstone
11/29/22

#4

```
SELECT CASE EmailPromotion
        When 0 then 'Contact does not wish to receive email promotions.'
        When 1 then 'Contact does wish to receive email promotions from
AdventureWorks.'
        When 2 then'Contact does wish to receive email promotions from AdventureWorks
and selected partners.'
        END AS 'Email Preference',
        COUNT(EmailPromotion) AS "Count"
FROM Person.Person
GROUP BY EmailPromotion
ORDER BY EmailPromotion;
```

	Email Preference	Count
1	Contact does not wish to receive email promotions.	11158
2	Contact does wish to receive email promotions from AdventureWorks.	5044
3	Contact does wish to receive email promotions from AdventureWorks and selected partners.	3770

DESKTOP-FGQ1OBR (15.0 RTM) | DESKTOP-FGQ1OBR\fired ... | AdventureWorks2017 | 00:00:00 | 3 rows

James Livingstone
11/29/22

#5

```sql
SELECT BusinessEntityID, CommissionPct, Bonus,
 DENSE_RANK () OVER (ORDER BY CommissionPct DESC, Bonus DESC) AS "Rank"
FROM Sales.SalesPerson;
```

Results | Messages

	BusinessEntityID	CommissionPct	Bonus	Rank
1	289	0.02	5150.00	1
2	284	0.019	3900.00	2
3	286	0.018	5650.00	3
4	288	0.018	75.00	4
5	290	0.016	985.00	5
6	282	0.015	5000.00	6
7	277	0.015	2500.00	7
8	276	0.015	2000.00	8
9	275	0.012	4100.00	9
10	283	0.012	3500.00	10
11	279	0.01	6700.00	11
12	280	0.01	5000.00	12
13	281	0.01	3550.00	13
14	278	0.01	500.00	14
15	274	0.00	0.00	15
16	287	0.00	0.00	15
17	285	0.00	0.00	15