Business Questions and Answers

1. Number of meal-types

```
FROM [dbo].[Invoices]

Type_of_Meal

Lunch

Breakfast

Dinner
```

2. Number of sales representatives

```
| SELECT COUNT(DISTINCT [Sales_Rep]) AS 'No. of Sales Reps' | FROM [dbo].[SalesTeam] | No. of Sales Reps | 500
```

3. Total orders

Lunch

```
SELECT FORMAT(COUNT( DISTINCT i.[Order_Id]), 'N0') AS Total_orders
FROM [dbo].[Invoices] i

JOIN[dbo].[OrderLeads] o
ON i.[Order_Id]=o.Order_Id

Total_orders

50,017
```

4. Participants by meal type

```
|SELECT[Type_of_Meal],COUNT([No_of_participants]) AS Num_of_particpants
|FROM[dbo].[Invoices]
|GROUP BY[Type_of_Meal]
|ORDER BY Num_of_particpants DESC
```

	Type_of_Meal	Num_of_particpants
1	Dinner	16732
2	Breakfast	16663
3	Lunch	16622

5. No of converted orders by meal type

```
| SELECT[Type_of_Meal], COUNT([No_of_participants]) AS converted_orders | FROM[dbo].[Invoices] i | JOIN[dbo].[OrderLeads] o | ON i.Order_Id=o.Order_Id | WHERE [Converted]='converted' | GROUP BY[Type_of_Meal] | ORDER BY converted_orders | DESC | Type_of_Meal | converted_orders | Dinner | 4270 | Breakfast | 4246 |
```

6. No. of 'not converted' orders by meal type

3999

```
SELECT[Type_of_Meal], COUNT([No_of_participants]) AS orders_not_converted
FROM[dbo].[Invoices] i
JOIN[dbo].[OrderLeads] o
ON i.Order_Id=o.Order_Id
WHERE [Converted]='not converted'
GROUP BY[Type_of_Meal]
ORDER BY orders_not_converted DESC
```

Type_of_Meal	orders_not_converted	
Lunch	12623	
Dinner	12462	
Breakfast	12417	

7. Total revenue generated from meal sales

```
SELECT FORMAT (SUM([Order_Value]), 'N0') AS Total_revenue FROM [dbo].[OrderLeads] o JOIN[dbo].[Invoices] i ON o.Order_Id=i.Order_Id WHERE [Converted]='converted'

Total_revenue 62,564,896
```

8. How does revenue vary over the different meal types?

```
| SELECT [Type_of_Meal], FORMAT (SUM([Order_Value]), 'N0') AS Revenue FROM [dbo].[Invoices] i | JOIN [dbo].[Order_Leads] O | ON i.[Order_Id]=o.[Order_Id] | WHERE [Converted]='converted' | GROUP BY [Type_of_Meal] | ORDER BY revenue DESC | Type_of_Meal | Revenue | Breakfast | 21,283,103 | Dinner | 21,208,848 | Lunch | 20.072,945
```

9. Total revenue for each year

```
|SELECT i.[Year], SUM([Order_Value]) AS Revenue
FROM [dbo].[Invoices] i
JOIN [dbo].[OrderLeads] O
ON i.[Order_Id]=o.[Order_Id]
WHERE [Converted]='converted'
GROUP BY i.[Year]
ORDER BY revenue DESC
  Year
        Revenue
        14281623
  2015
  2014
       14142057
  2016
        13838590
  2017
        11131582
  2018 9171044
```

10. How does the number of participants in meals vary over time?

```
SELECT [Year_DOM], SUM([No_of_participants]) AS Num_of_participants FROM [dbo].[Invoices] i

JOIN [dbo].[OrderLeads] o

ON i.Order_Id=o.Order_Id

WHERE [Converted]= 'converted'

GROUP BY [Year_DOM]

ORDER BY Num_of_participants DESC
```

nts
nts

2018 1844

Sunday

Wednesday

11. How does conversion numbers vary overtime

```
SELECT i.[Year], COUNT([Converted]) AS Num_of_coversions
FROM[dbo].[Invoices] i
JOIN [dbo].[OrderLeads] o
ON i.[Order_Id]=o.[Order_Id]
WHERE [Converted] = 'converted'
GROUP BY I.[Year]
ORDER BY Num_of_coversions DESC
        Num_of_coversions
  Year
  2014
         2849
  2015
       2827
  2016
         2744
  2017
         2251
```

12. Which day of the week recorded the highest revenue?

```
|SELECT [day_of_week],SUM([Order_Value]) AS Revenue
FROM [dbo].[Invoices] i
JOIN [dbo].[OrderLeads] O
ON i.[Order_Id]=o.[Order_Id]
WHERE [Converted]='converted'
GROUP BY[day_of_week]
ORDER BY revenue DESC
 day_of_week
              Revenue
 Tuesday
              9193899
              9122603
 Friday
 Saturday
              8978937
 Monday
              8971374
 Thursday
              8893487
```

13. Trends or patterns in the conversion rates over time

8880746 8523850

```
i.[Year],
COUNT(i.Order_Id) AS TotalOrders,
SUM(CASE WHEN [Converted] = 'Converted' THEN 1 ELSE 0 END) AS ConvertedOrders,
CAST(SUM(CASE WHEN [Converted] = 'Converted' THEN 1 ELSE 0 END) AS FLOAT) / COUNT(i.Order_Id) AS ConversionRate
FROM [dbo].[Invoices] i
JOIN[dbo].[Order_Leads] o
ON i.Order_Id=o.Order_Id
--WHERE i.[Year] = 2014
GROUP BY i.[Year]
ORDER BY ConvertedOrders DESC
```

Year	TotalOrders	ConvertedOrders	ConversionRate
2014	10069	2849	0.282947661138147
2015	10039	2827	0.281601753162666
2016	9857	2744	0.278380846099219
2017	9937	2251	0.226527120861427
2018	10115	1844	0.18230350963915

14. What is the conversion rate of leads to orders?

```
SELECT

CAST(SUM(CASE WHEN [Converted] = 'Converted' THEN 1 ELSE 0 END) AS FLOAT) / COUNT(Order_Id) AS ConversionRate

FROM [dbo].[OrderLeads]

ConversionRate

0.17029
```

15. Which sales representative has the highest num of conversions

```
|SELECT [Sales_Rep], COUNT([Converted]) AS Num_of_conversions
|FROM [dbo].[SalesTeam] s
|JOIN[dbo].[OrderLeads] O
|ON s.Company_Id=o.Company_Id
|WHERE [Converted]= converted
|GROUP BY[Sales_Rep]
|ORDER BY Num_of_conversions DESC
|Sales_Rep | Num_of_conversions
|Carol Miller | 405
```