3. Business Analytics

3.1

```
1        |
2  ●  SELECT p.ProductTopCategoryName as 'Product Top Category', SUM(fsi.OrderLineProfit) as Profit
3     FROM fact_internetsales fsi
4     JOIN dim_product p
5     ON fsi.ProductKey = p.ProductKey
6     WHERE OrderDate >= Date("2021-01-01") AND OrderDate <= Date("2021-12-31")
7     GROUP BY p.ProductTopCategoryName ORDER BY Profit DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A

Product Top Category	Profit

Result 1 ×

Output

Action Output

#	Time	Action	Message
1	19:50:44	SELECT p.ProductTopCategoryName as 'Product Top Category', SUM(fsi.OrderLineProfit) as Profit FROM fact_i...	0 row(s) returned

3.2

```
1  ●  SELECT dl.Country, SUM(fsi.OrderLineTotal) as Revenue
2     FROM fact_internetsales fsi
3     JOIN dim_location dl
4     ON fsi.ShipToLocationKey = dl.LocationKey
5     WHERE OrderDate >= Date("2019-01-01") AND OrderDate <= Date("2019-12-31")
6     GROUP BY dl.Country ORDER BY Revenue DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: A

Country	Revenue

Result 1 ×

Output

Action Output

#	Time	Action	Message
1	19:52:34	SELECT dl.Country, SUM(fsi.OrderLineTotal) as Revenue FROM fact_internetsales fsi JOIN dim_location dl ON f...	0 row(s) returned

3.3

```
1  ● select rank() over( partition by inter.CustomerKey order by SUM(OrderLineProfit) desc) as "Customer Rank" ,
2    FullName, SUM(OrderLineProfit) AS "Profit" from dim_customer cust join fact_internetsales inter
3     on cust.CustomerKey = inter.CustomerKey
4     where OrderDate >= Date("2021-01-01") AND OrderDate <= Date("2021-06-30")
5     order by SUM(OrderLineProfit) desc;
6
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Customer Rank	FullName	Profit
1	NULL	NULL

Result 1 ×

Output

Action Output

#	Time	Action	Message
● 1	19:53:28	select rank() over(partition by inter.CustomerKey order by SUM(OrderLineProfit) desc) as "Customer Rank" , Full...	1 row(s) returned

3.4

```
1  ● select Region, FullName , SUM(OrderQty) AS "Quantity Sold",rank() over (partition by inter.CustomerKey order by SUM(OrderQty) desc)
2    as "Rank"  from dim_location loc join fact_internetsales inter on
3    loc.LocationKey= inter.ShipToLocationKey join dim_customer cust on
4    cust.CustomerKey=inter.CustomerKey
5    where Region = "Europe"
6    order by SUM(OrderQty) desc
7    limit 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Region	FullName	Quantity Sold	Rank
NULL	NULL	NULL	1

Result 1 ×

Output

Action Output

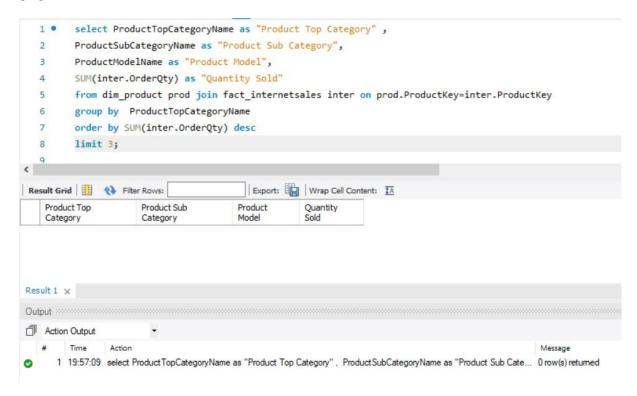| #	Time	Action	Message
● 1	19:54:23	select Region, FullName , SUM(OrderQty) AS "Quantity Sold",rank() over (partition by inter.CustomerKey order by ...	1 row(s) returned

3.5

```
1   select Country, EXTRACT(Year FROM fsi.OrderDate) as 'Year', EXTRACT(Month FROM fsi.OrderDate) as Month,
2   SUM(fsi.OrderLineShoppingCost) AS "Shipping costs" from fact_internetsales fsi join dim_location loc
3   on fsi.ShipToLocationKey= loc.LocationKey
4   where fsi.ShipToLocationKey=10
5   and ShipMethos ="Cargo International"
6   and  OrderDate >= Date("2020-01-01") AND OrderDate <= Date("2020-06-30")
7   order by Month;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Country	Year	Month	Shipping costs
NULL	NULL	NULL	NULL

Result 2 ×

Output

Action Output

#	Time	Action	Message
1	19:56:04	select Country, EXTRACT(Year FROM fsi.OrderDate) as 'Year', EXTRACT(Month FROM fsi.OrderDate) as Month...	1 row(s) returned

3.6

```
1   select ProductTopCategoryName as "Product Top Category" ,
2   ProductSubCategoryName as "Product Sub Category",
3   ProductModelName as "Product Model",
4   SUM(inter.OrderQty) as "Quantity Sold"
5   from dim_product prod join fact_internetsales inter on prod.ProductKey=inter.ProductKey
6   group by  ProductTopCategoryName
7   order by SUM(inter.OrderQty) desc
8   limit 3;
9
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Product Top Category	Product Sub Category	Product Model	Quantity Sold

Result 1 ×

Output

Action Output

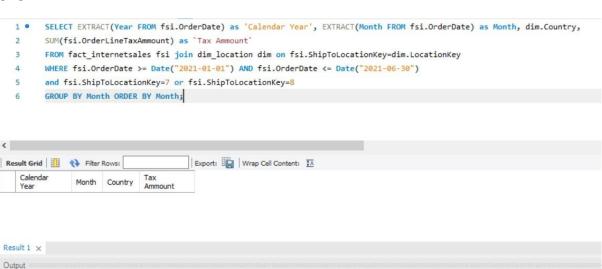| #	Time	Action	Message
1	19:57:09	select ProductTopCategoryName as "Product Top Category" , ProductSubCategoryName as "Product Sub Cate...	0 row(s) returned

3.7

```sql
1  select Country , SUM(inter.OrderLineProfit) AS "Profit"
2   from dim_location loc join fact_internetsales inter on loc.LocationKey = inter.ShipToLocationKey
3  where UnitPrice between 1000 and 2000
4  order by SUM(inter.OrderLineProfit)  desc
5  limit 3;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Country	Profit
NULL	NULL

Result 2 ×

Output

Action Output

#	Time	Action	Message
✓ 1	19:58:11	select Country , SUM(inter.OrderLineProfit) AS "Profit" from dim_location loc join fact_internetsales inter on loc.L...	1 row(s) returned

3.8

```sql
1  SELECT EXTRACT(Year FROM fsi.OrderDate) as 'Calendar Year', EXTRACT(Month FROM fsi.OrderDate) as Month, dim.Country,
2  SUM(fsi.OrderLineTaxAmmount) as `Tax Ammount`
3  FROM fact_internetsales fsi join dim_location dim on fsi.ShipToLocationKey=dim.LocationKey
4  WHERE fsi.OrderDate >= Date("2021-01-01") AND fsi.OrderDate <= Date("2021-06-30")
5  and fsi.ShipToLocationKey=7 or fsi.ShipToLocationKey=8
6  GROUP BY Month ORDER BY Month;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Calendar Year	Month	Country	Tax Ammount

Result 1 ×

Output

Action Output

#	Time	Action	Message
✓ 1	19:58:42	SELECT EXTRACT(Year FROM fsi.OrderDate) as 'Calendar Year', EXTRACT(Month FROM fsi.OrderDate) as Mo...	0 row(s) returned