- BI Queries & results (SQL queries is fine, can use BI tools but NOT graded on BI)
    - Ranked order of Vendors by purchase amount $

```sql
select RANK() over (order by SUM(FP.TotalDue) desc) as Ranking, DV.VendorName as 'Vendor Name',
CONCAT('$',SUM(FP.TotalDue)) as 'Purchase Amount'
from FactPurchases as FP
Inner join DimVendors as DV
on FP.VendorID = DV.BusinessEntityID
group by DV.VendorName;
```

    - Ranked order of products by amount $
        - By category

```sql
select RANK() over (order by SUM(FP.LineTotal) desc) as Ranking, DP.ProductCategoryName as 'Product
Category', CONCAT('$',SUM(FP.LineTotal)) as 'Purchase Amount'
from FactPurchases as FP
inner join DimProducts_Purchased as DP
on FP.ProductPurchasedSK = DP.ProductPurchasedSK
group by DP.ProductCategoryName;
```

        - By subcategory

```sql
select RANK() over (order by SUM(FP.LineTotal) desc) as Ranking, DP.ProductSubcategoryName as
'Product Subcategory', CONCAT('$',SUM(FP.LineTotal)) as 'Purchase Amount'
from FactPurchases as FP
inner join DimProducts_Purchased as DP
on FP.ProductPurchasedSK = DP.ProductPurchasedSK
group by DP.ProductSubcategoryName;
```

        - By product model (top 20)

```sql
select Top 20 RANK() over (order by SUM(FP.LineTotal) desc) as Ranking, DP.ModelName as 'Product
Model', CONCAT('$',SUM(FP.LineTotal)) as 'Purchase Amount'
from FactPurchases as FP
inner join DimProducts_Purchased as DP
on FP.ProductPurchasedSK = DP.ProductPurchasedSK
group by DP.ModelName;
```

        - By product (top 20)

```sql
select Top 20 RANK() over (order by SUM(FP.LineTotal) desc) as Ranking, DP.ProductName as 'Product
Name', CONCAT('$',SUM(FP.LineTotal)) as 'Purchase Amount'
from FactPurchases as FP
inner join DimProducts_Purchased as DP
on FP.ProductPurchasedSK = DP.ProductPurchasedSK
group by DP.ProductName;
```

o   Ranked list of employees purchasing products amount $

```sql
select RANK() over (order by SUM(FP.TotalDue) desc) as Ranking, (DE.FirstName +' '+ DE.MiddleName+'
'+ DE.LastName)as 'Employee Full Name', CONCAT('$',SUM(FP.TotalDue)) as 'Purchase Amount'
from FactPurchases as FP
Inner join DimEmployee as DE
on FP.EmployeeID = DE.BusinessEntityID
group by DE.FirstName, DE.MiddleName, DE.LastName;
```

o   List of employees who purchased products with phone, email & address

```sql
select (DE.FirstName +' '+ DE.MiddleName+' '+ DE.LastName)as 'Employee Full Name',
DE.Phone, DE.EmailAddress, DE.AddressLine1, DE.AddressLine2, DG.City, DG.StateProvinceName as
'State', DG.PostalCode
from FactPurchases as FP
Inner join DimEmployee as DE
on FP.EmployeeID = DE.BusinessEntityID
Inner join DimGeography as DG
on DE.GeoSK = DG.GeoSK;
```

o   List of purchasing contacts with vendor name, phone, email & address

```sql
select (DVC.FirstName +' '+ DVC.MiddleName+' '+ DVC.LastName)as 'Vendor Full Name', DVC.PhoneNumber,
DVC.EmailAddress, DV.AddressLine1, DV.AddressLine2, DG.City, DG.StateProvinceName as 'State',
DG.PostalCode
from FactPurchases as FP
Inner join DimVendorContacts as DVC
on FP.VendorID = DVC.Vendor_BusinessEntityID
Inner join DimVendors as DV
on DVC.VendorSK = DV.VendorSK
Inner join DimGeography as DG
on DV.GeoSK = DG.GeoSK;
```