**ST1501 CA2 Group Task**

**Class: DIT 2B21**

**Group No: 1**

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**Group Task**

Data Warehouse Schema

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Queries explanation

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| Query | Explanation | SQL script |
| 1 | The SQL script is to find out which customer has spent the most among all the stores | SELECT  SF.CustomerKey AS 'Customer Key',  C.FirstName + ' ' + C.LastName AS 'Name',  SF.StoreKey AS 'Store ID',  ROUND(SUM(SF.ListPrice \* SF.Quantity \* SF.Discount), 2) AS 'Total Sales - With Discount ($)',  ROUND(SUM(SF.ListPrice \* SF.Quantity), 2) AS 'Total Sales - Without Discount ($)'  FROM  SalesFacts SF  JOIN  CustomerDIM C  ON  SF.CustomerKey = C.CustomerKey  GROUP BY  SF.CustomerKey, C.FirstName, C.LastName, SF.StoreKey  ORDER BY  ROUND(SUM(SF.ListPrice \* SF.Quantity \* SF.Discount), 2)  DESC,  SF.StoreKey  ASC; |
| 2 | The SQL script is to show how much which employee in which store has earned the most | select      StaffKey,      StoreKey,      sum(ListPrice) as 'Amt Earned'  from      SalesFacts  Group by      StaffKey,      StoreKey  Order by      'Amt Earned' asc |
| 3 | The SQL script is to show how many orders there were in each quarter of the year | Select orders\_key 'OrderNumber',Year,Quarter,  SUM(ListPrice\*quantity) AS "Revenue From Orders by Season"  From SalesFacts f  INNER JOIN TimeDIM t  ON f.TimeKey = t.TimeKey  Group By orders\_key,Year,Quarter,Season  Order By orders\_key ASC,Year ASC, Quarter ASC |
| 4 | The SQL script is to show how much each customer has spent | select o.order\_key 'Order No', c.customer\_key,c.first\_name + c.last\_name 'Customer Name',  sum(f.ListPrice + f.quantity) 'Total Sales'  from SalesFacts f  inner join orders o on f.order\_key = o.order\_key  inner join Customer c on f.customer\_key = c.customer\_key  group by o.order\_key,c.customer\_key,c.first\_name + c.last\_name  order by o.order\_key ASC,c.first\_name + c.last\_name ASC,c.customer\_key |
| 5 | The SQL script is to find how much inventory each product from which category from which brand has sold | Select      sf.productKey,      count(sf.ProductKey) as 'Total Sold',      b.BrandName,      c.CategoryName,      sum(sf.ListPrice) as 'Amt Earned'  from      ProductDim p  left join      SalesFacts sf on sf.ProductKey = p.ProductKey  right join      BrandDIM b ON b.BrandKey = p.BrandId  left join      CategoryDIM c ON c.CategoryKey = p.CategoryId  where      sf.productKey is not null  group by      sf.ProductKey,      b.BrandName,      c.CategoryName  order by      BrandName desc,      CategoryName desc,      [Amt Earned] asc |