# Module 2 – SQL

**Name: Jonathan Stevenson**

1. Query 1

Answer: 269770345.0612

Query:

select sum(fs.salesamount)

from FactSales fs inner join DimDate dd on dd.Datekey = fs.DateKey

where dd.FiscalMonth = 200901

1. Query 2

Answer: 626638255.869

Query:

select sum(fs.salesamount) - sum(fs.totalcost)

from FactSales fs inner join DimDate dd on dd.Datekey = fs.DateKey

where dd.FiscalQuarter = 20083

1. Query 3

Answer: January

Query:

select sum(fs.salesamount) - sum(fs.totalcost), dd.CalendarMonth, dd.CalendarMonthLabel

from FactSales fs inner join DimDate dd on dd.Datekey = fs.DateKey

where dd.FiscalYear = 2008

group by dd.CalendarMonth, dd.CalendarMonthLabel

order by sum(fs.salesamount) - sum(fs.totalcost) asc

1. Query 4

Answer: 139316044.9214

Query:

select avg(profit) from

(

select sum(fs.salesamount) - sum(fs.totalcost) as profit, dd.CalendarMonth, dd.CalendarMonthLabel

from FactSales fs inner join DimDate dd on dd.Datekey = fs.DateKey

where dd.FiscalYear = 2008

and dd.IsWorkDay = 'WorkDay'

group by dd.CalendarMonth, dd.CalendarMonthLabel

) profitQuery

1. Query 5

Answer: 802247.42

Query:

select sum(fs.ReturnAmount) as retAmnt

from FactSales fs inner join DimProduct dp on dp.ProductKey = fs.ProductKey

inner join dimproductcategory dpc on dpc.ProductCategoryKey = dp.ProductSubcategoryKey

where dpc.ProductCategoryName = 'Audio'

1. Query 6

Answer: Contoso Europe Reseller

Query:

select ds.StoreName as storeName, sum(fs.salesAmount) as salesTotal

from FactSales fs inner join DimStore ds on ds.StoreKey = fs.StoreKey

group by ds.StoreName

having sum(fs.salesAmount) between 500000000 and 560000000

1. Query 7

Answer: 3917.1241

Query:

select avg(fs.salesamount) as salesTotal

from FactSales fs inner join DimDate dd on dd.Datekey = fs.DateKey

inner join DimStore ds on ds.StoreKey = fs.StoreKey

where dd.FiscalYear = 2009

and ds.ZipCode = 70001

1. Query 8

Answer: 301

Query:

select count(1) totalStoresWithSales

from (

select count(1) cnt, FactSales.StoreKey as totalStores

from FactSales

where DateKey between cast('1-1-2008' as date) and cast('12-31-2008' as date)

and FactSales.SalesAmount > 0

group by StoreKey

) ss

1. Query 9

Answer: 45.1635

Query:

select avg(fs.unitCost) as avgMp3UnitCost

from FactSales fs inner join DimProduct dp on dp.ProductKey = fs.ProductKey

where dp.ProductName like '%mp3%'

1. Query 10

Answer: 0.00

Query:

select min(fs.discountamount) as minDiscountAmount

from

FactSales fs inner join DimStore ds on ds.StoreKey = fs.StoreKey

inner join DimDate dd on dd.Datekey = fs.DateKey

where dd.FiscalYear = 2008

and ds.StoreName = 'Contoso Bellevue Store'