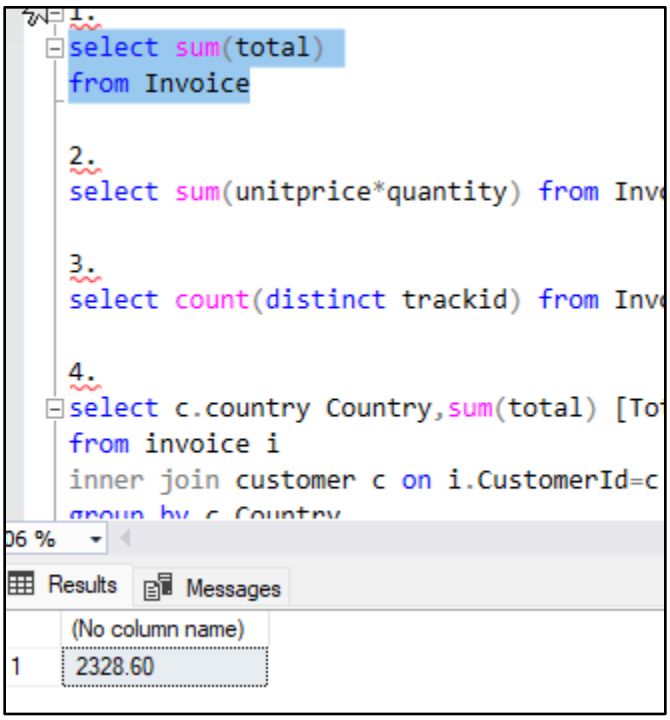
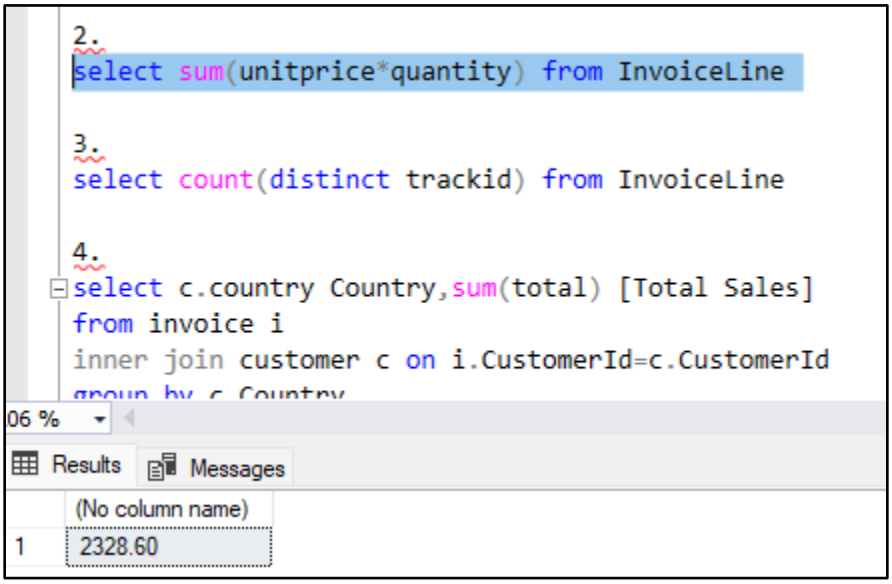
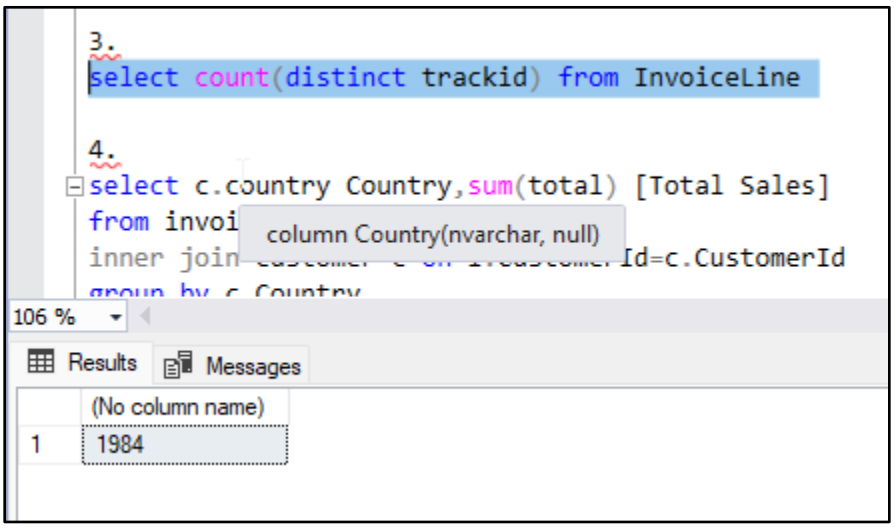
1.Total sales $ via Invoice



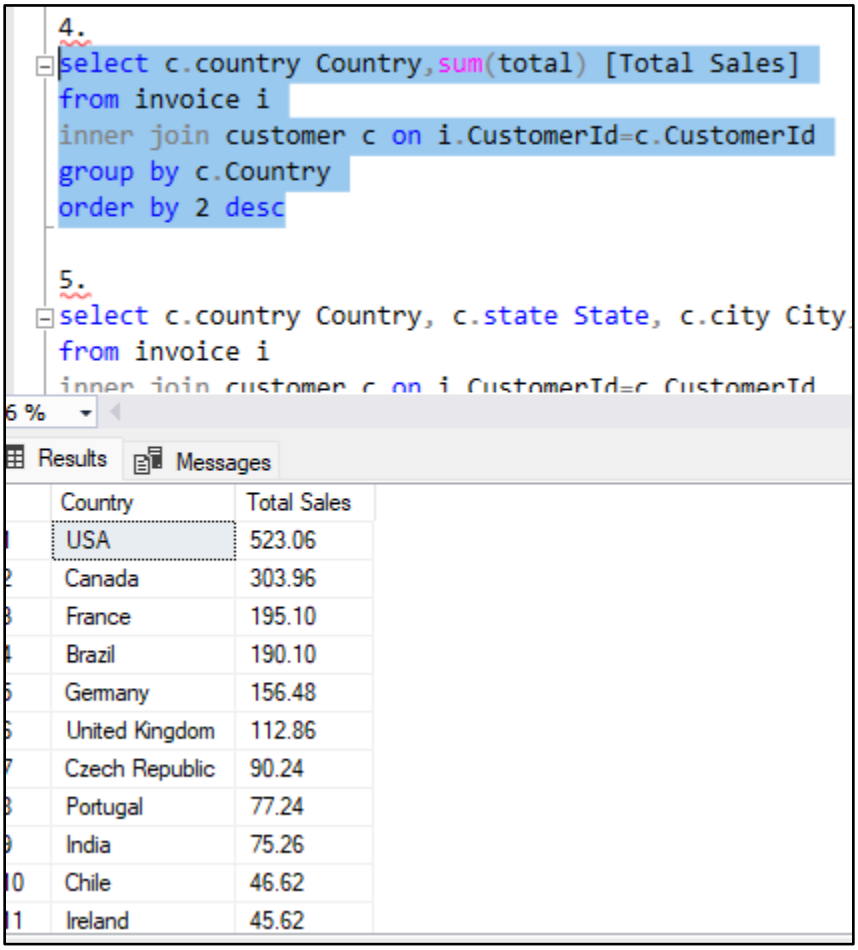
2. Total sales $ via Invoiceline



3. Total tracks (songs) sold



4. Total sales $ by customer's country – ranked (sorted largest to smallest)



5. Total sales $ by customer's geo (country, state & city)

```
5.
select c.country Country, c.state State, c.city City, sum(total) [Total Sales]
from invoice i
inner join customer c on i.CustomerId=c.CustomerId
group by c.Country, c.state, c.city
order by 2 desc

6.
select c.FirstName+' ' +c.LastName, sum(total) [Total Sales]
from invoice i
inner join customer c on i.CustomerId=c.CustomerId
group by c.FirstName+' ' +c.LastName
order by 2 desc
```

Results | Messages

	Country	State	City	Total Sales
	USA	WI	Madison	42.62
2	USA	WA	Redmond	39.62
3	Netherlands	VV	Amsterdam	40.62
4	USA	UT	Salt Lake City	43.62
5	USA	TX	Fort Worth	47.62
6	Brazil	SP	São José dos Campos	39.62
7	Brazil	SP	São Paulo	75.24
8	Italy	RM	Rome	37.62
9	Brazil	RJ	Rio de Janeiro	37.62
10	Canada	QC	Montréal	39.62
11	Canada	ON	Ottawa	37.62

6. Total sales $ by customer (a person with last name & first name) – ranked (sorted largest to smallest)

```
6.
select c.FirstName+' ' +c.LastName, sum(total) [Total Sales]
from invoice i
inner join customer c on i.CustomerId=c.CustomerId
group by c.FirstName+' ' +c.LastName
order by 2 desc

7.
select c.company, sum(total) [Total Sales]
from invoice i
right join customer c on i.CustomerId=c.CustomerId
```

Results | Messages

	(No column name)	Total Sales
1	Helena Holý	49.62
2	Richard Cunningham	47.62
3	Luis Rojas	46.62
4	Ladislav Kovács	45.62
5	Hugh O'Reilly	45.62
6	Fynn Zimmermann	43.62
7	Julia Barnett	43.62
8	Frank Ralston	43.62
9	Astrid Gruber	42.62
10	Victor Stevens	42.62
11	Terhi Hämäläinen	41.62

Query executed successfully.

7. Total sales $ by company – ranked (sorted largest to smallest)

```
7.
select c.company, sum(total) [Total Sales]
from invoice i
right join customer c on i.CustomerId=c.CustomerId
group by c.company
order by 2 desc

8.
select art.[Name],sum(total)
from invoice i
inner join InvoiceLine il on i.InvoiceId=il.InvoiceId
```

106 %

Results | Messages

	company	Total Sales
1	NULL	1943.40
2	JetBrains s.r.o.	40.62
3	Microsoft Corporation	39.62
4	Embraer - Empresa Brasileira de Aeronáutica S.A.	39.62
5	Apple Inc.	38.62
6	Rogers Canada	38.62
7	Telus	37.62
8	Woodstock Discos	37.62
9	Riotur	37.62
10	Banco do Brasil S.A.	37.62
11	Google Inc.	37.62

Query executed successfully.

8. Total sales $ by artist – ranked (sorted largest to smallest)

```
8.
select art.[Name],sum(total)
from invoice i
inner join InvoiceLine il on i.InvoiceId=il.InvoiceId
inner join track t on t.TrackId=il.TrackId
inner join album a on a.AlbumId=t.AlbumId
inner join Artist art on art.ArtistId=a.ArtistId
group by art.[Name]
order by 2 desc

9.
select a.Title,sum(total)
from invoice i
```

106 %

Results | Messages

	Name	(No column name)
1	Iron Maiden	1233.54
2	U2	895.59
3	Lost	833.70
4	Led Zeppelin	620.73
5	Metallica	599.94
6	Deep Purple	550.44
7	Pearl Jam	408.87
8	Lenny Kravitz	372.51
9	Van Halen	336.82
10	The Office	328.80
11	Various Artists	318.78

Query executed successfully.

9. Total sales $ by album – ranked (sorted largest to smallest)

```
9.
select a.Title,sum(total)
from invoice i
inner join InvoiceLine il on i.InvoiceId=il.InvoiceId
inner join track t on t.TrackId=il.TrackId
inner join album a on a.AlbumId=t.AlbumId
group by a.Title
order by 2 desc
```

6 %

Results | Messages

	Title	(No column name)
1	Greatest Hits	372.51
2	Lost, Season 2	290.18
3	Heroes, Season 1	238.61
4	Lost, Season 1	223.65
5	Lost, Season 3	211.80
6	Battlestar Galactica, Season 3	202.80
7	Minha Historia	185.13
8	The Office, Season 3	170.93
9	Ao Vivo [IMPORT]	161.74
10	Battlestar Galactica (Classic), Season 1	157.10
11	Unplugged	151.47

Query executed successfully.

10. Total sales $ by salesperson (employee)

```
10.
select (e.FirstName+' ' +e.lastname) [Employee Name],sum(i.total) [Sales]
from invoice i
inner join customer c on i.CustomerId=c.CustomerId
inner join Employee e on e.EmployeeId=c.SupportRepId
group by (e.FirstName+' ' +e.lastname)
order by 2 desc

11
```

106 %

Results | Messages

	Employee Name	Sales
1	Jane Peacock	833.04
2	Margaret Park	775.40
3	Steve Johnson	720.16

11. Total sales $ by media type

```
11.
select m.[name],sum(total)
from invoice i
inner join InvoiceLine il on i.InvoiceId=il.InvoiceId
inner join track t on t.TrackId=il.TrackId
inner join MediaType m on m.MediaTypeId=t.MediaTypeId
group by m.[name]
order by 2 desc

12.
select g.[name],sum(total)
from invoice i
inner join InvoiceLine il on i.InvoiceId=il.InvoiceId
```

06 %

Results | Messages

	name	(No column name)
1	MPEG audio file	17838.27
2	Protected MPEG-4 video file	1775.90
3	Protected AAC audio file	1160.11
4	AAC audio file	48.58
5	Purchased AAC audio file	25.76

12. Total sales $ by genre

```
12.
select g.[name],sum(total)
from invoice i
inner join InvoiceLine il on i.InvoiceId=il.InvoiceId
inner join track t on t.TrackId=il.TrackId
inner join Genre g on g.GenreId=t.GenreId
group by g.[name]
order by 2 desc

13.
select year(invoicedate) [Year],sum(total) [Sales]
from invoice
group by year(invoicedate)
```

06 %

Results | Messages

	name	(No column name)
1	Rock	7720.02
2	Latin	3472.55
3	Metal	2093.13
4	Alternative & Punk	1961.66
5	TV Shows	817.71
6	Jazz	746.46
7	Drama	544.61
8	Blues	429.66
9	R&B/Soul	338.62
10	Reggae	332.64
11	Classical	317.04

13. What are the total sales $ by year

```
13.
select year(invoicedate) [Year],sum(total) [Sales]
from invoice
group by year(invoicedate)
order by 1

14.
select year(invoicedate) [Year],format(invoicedate,'M
from invoice
group by year(invoicedate),format(invoicedate,'MMMM')
order by 1

15
```

106 %

Results | Messages

	Year	Sales
1	2009	449.46
2	2010	481.45
3	2011	469.58
4	2012	477.53
5	2013	450.58

14. What are the total sales $ by year-month

```
14.
select year(invoicedate) [Year],format(invoicedate,'MMMM') [Month],sum(total) [Sales]
from invoice
group by year(invoicedate),format(invoicedate,'MMMM')
order by 1

15.
select
e.FirstName+' '+e.LastName,
e.BirthDate
```

106 %

Results | Messages

	Year	Month	Sales
1	2009	April	37.62
2	2009	August	37.62
3	2009	December	37.62
4	2009	February	37.62
5	2009	January	35.64
6	2009	July	37.62
7	2009	June	37.62
8	2009	March	37.62
9	2009	May	37.62
10	2009	November	37.62
11	2009	October	37.62

Query executed successfully. LAPTOP-B40PCB4S (15.0 RTM

15. What are the employees' name, birthday, hiredate, years of working with company (assume as of 2013-12-31), address, city, state, country, title, manager and manager's title

```
15.
select
e.FirstName+' '+e.LastName,
e.BirthDate,
e.HireDate,
datediff(year,e.HireDate,'2013-12-31'),
e.[Address],
e.City,
e.[State],
e.Country,
e.Title,
isnull(m.FirstName+' '+m.LastName, 'NO MANAGER'),
isnull(m.Title, 'NO MANAGER')
from employee e
left join employee m on e.ReportsTo=m.EmployeeId
```

106 %

Results | Messages

	(No column name)	BirthDate	HireDate	(No column name)	Address	City	State	Country	Title	(No column name)
1	Andrew Adams	1962-02-18 00:00:00.000	2002-08-14 00:00:00.000	11	11120 Jasper Ave NW	Edmonton	AB	Canada	General Manager	NO MANAGER
2	Nancy Edwards	1958-12-08 00:00:00.000	2002-05-01 00:00:00.000	11	825 8 Ave SW	Calgary	AB	Canada	Sales Manager	Andrew Adams
3	Jane Peacock	1973-08-29 00:00:00.000	2002-04-01 00:00:00.000	11	1111 6 Ave SW	Calgary	AB	Canada	Sales Support Agent	Nancy Edwards
4	Margaret Park	1947-09-19 00:00:00.000	2003-05-03 00:00:00.000	10	683 10 Street SW	Calgary	AB	Canada	Sales Support Agent	Nancy Edwards
5	Steve Johnson	1965-03-03 00:00:00.000	2003-10-17 00:00:00.000	10	7727B 41 Ave	Calgary	AB	Canada	Sales Support Agent	Nancy Edwards
6	Michael Mitchell	1973-07-01 00:00:00.000	2003-10-17 00:00:00.000	10	5827 Bowness Road NW	Calgary	AB	Canada	IT Manager	Andrew Adams
7	Robert King	1970-05-29 00:00:00.000	2004-01-02 00:00:00.000	9	590 Columbia Boulevard West	Lethbridge	AB	Canada	IT Staff	Michael Mitchell
8	Laura Callahan	1968-01-09 00:00:00.000	2004-03-04 00:00:00.000	9	923 7 ST NW	Lethbridge	AB	Canada	IT Staff	Michael Mitchell

16. What are the total sales $ by employee age at the time of the invoice date

```
16.
select datediff(year,e.BirthDate,i.InvoiceDate) [Employee Age],sum(i.total) [Sales]
from invoice i
inner join customer c on i.CustomerId=c.CustomerId
inner join Employee e on e.EmployeeId=c.SupportRepId
group by datediff(year,e.BirthDate,i.InvoiceDate)
order by 1 desc

17.
```

106 %

Results | Messages

	Employee Age	Sales
1	66	168.30
2	65	197.20
3	64	125.77
4	63	122.76
5	62	161.37
6	48	125.85
7	47	133.73
8	46	159.47
9	45	136.77

Query executed successfully. LAPTOP-B40PCB4S (15.0 RTM)

17. What are the total sales $ by employees who are in their 30s, 40s, 50s and 60s (employee age at the time of the invoice date)

```
17.
select datediff(year,e.BirthDate,i.InvoiceDate) [Employee Age],sum(i.total) [Sales]
from invoice i
inner join customer c on i.CustomerId=c.CustomerId
inner join Employee e on e.EmployeeId=c.SupportRepId
group by datediff(year,e.BirthDate,i.InvoiceDate)
having datediff(year,e.BirthDate,i.InvoiceDate) between 30 and 69
order by 1 desc
```

06 %

Results | Messages

	Employee Age	Sales
1	66	168.30
2	65	197.20
3	64	125.77
4	63	122.76
5	62	161.37
6	48	125.85
7	47	133.73
8	46	159.47
9	45	136.77

Query executed successfully. LAPTOP-B40PCB4S (15.0 R