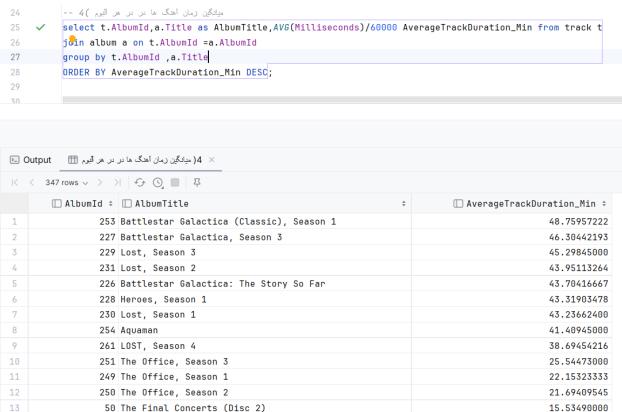
```
آهنگ بریر که بیشترین درامد ری داشتن به همراه درامد ایجاد شده 10 --
          select il.TrackId,t.Name as TrackName,SUM(il.UnitPrice * il.Quantity) AS Revenue
 3
          from invoiceline il
          join track t on il.TrackId =t.TrackId
 4
 5
          group by il.TrackId ,t.Name
 6
          order by Revenue desc
          limit 10;
il
Output
          × 1. 10 آهنگ برتر که ب...همراه درامد ایجاد شده 🌐
□ TrackId ‡ □ TrackName
                                                            □ Revenue ‡
1
               3177 Hot Girl
                                                                    3.98
2
               2868 Walkabout
                                                                    3.98
3
               3200 Gay Witch Hunt
                                                                    3.98
                                                                    3.98
4
               3223 How to Stop an Exploding Man
5
                                                                    3.98
               3250 Pilot
               3214 Phyllis's Wedding
                                                                    3.98
6
7
               2850 The Fix
                                                                    3.98
               2832 The Woman King
                                                                    3.98
8
9
               2874 I Do
                                                                    1.99
               2862 The Glass Ballerina
                                                                    1.99
10
```



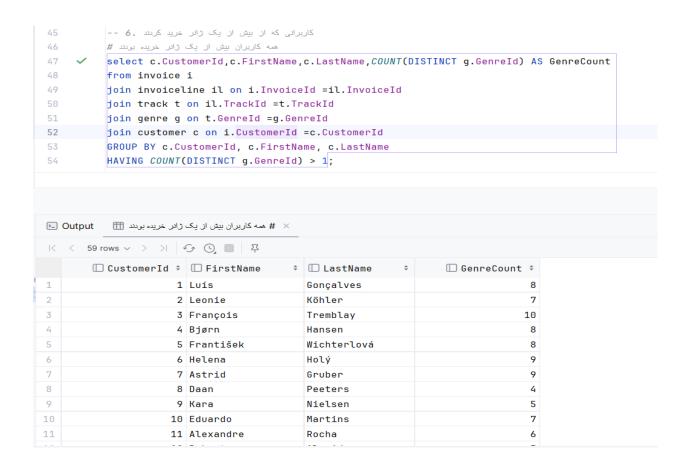
```
کاربرانی که تا حال خرید نداشتند .3 --
20
21
         select c.CustomerId,c.FirstName,c.LastName
22
         from customer c
         left join invoice i ON c.CustomerId =i.CustomerId
23
24
         where i.CustomerId is null;
25
26

    CustomerId 
    TirstName 
    LastName

   میانگین زمان آهنگ ها در در هر آلبوم ) 4 --
✓ select t.AlbumId,a.Title as AlbumTitle,AVG(Milliseconds)/60000 AverageTrackDuration_Min from track t
```



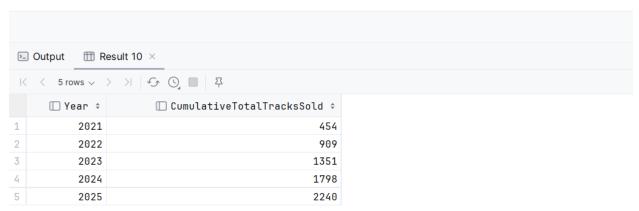
```
کارمندی که بیشترین تعداد فروش را داشته .5 --
35
         sect e.EmployeeId, concαt(e.FirstName,' ',e.LastName) Fullname, Count(*) TotalSales
36
37
         from invoice i
38
         join customer c on i.CustomerId =c.CustomerId
         join employee e on c.SupportRepId =e.EmployeeId
39
40
         group by e.EmployeeId ,Fullname
41
         order by TotalSales desc
42
         limit 1;
🗾 Output 🌐 کارمددی که بیشتری...ن تعداد فروش را داشته علی 🗡 🗔
1
                  3 Jane Peacock
                                                    146
```



```
سه آهنگ برتر از نظر درامد فروش برای هر ژانر )7 --
                                                                                                                                A 2 ^

✓ with cte as (
          select row_number() over (partition by TrackId order by i.InvoiceDate) RankBySoldDate
              ,Sum(il.UnitPrice) over (partition by TrackId ) as sum_of_price
               ,il.TrackId,t.Name as TrackName,t.GenreId,g.Name as genreName
 56
          from invoiceline il
 58
          ioin invoice i on i.InvoiceId=il.InvoiceId
 59
         join track t on il.TrackId =t.TrackId
          join genre g on t.GenreId =g.GenreId)
 61
          ,cte2 as (select ★,ROW_NUMBER() OVER (PARTITION BY GenreId order by sum_of_price desc,RankBySoldDate desc) as Row_Num from cte)
          select GenreName, Row_Num, cte2.trackid, cte2.TrackName, Sum_of_price
 63
          fiom cte2
         where Row_Num<4;
 64
 66
          01 1181
🔀 Output 👚 مدگ برتر از ن...امد فروش برای هر ژادر الله Output 🗎 🗵
|< < 72 rows > >| 😏 🔾 🔲 📮
☐ GenreName
                    🗌 trackid 🗧 🔲 TrackName
                                                                                              Sum_of_price *
1 Rock
                                                        2 Balls to the Wall
                                        2
 2 Rock
                                                        8 Inject The Venom
                                                                                                           1.98
 3 Rock
                                        3
                                                        9 Snowballed
                                                                                                           1.98
   Jazz
                                        1
                                                        66 Por Causa De Você
                                                                                                           1.98
 5 Jazz
                                        2
                                                                                                           1.98
                                                       461 Surrender
 6 Jazz
                                        3
                                                       466 J Squared
                                                                                                           1.98
```

63	تعداد آهنگهای فروخته شده به صورت تجمعی در هر سال به صورت جداگانه )8
64 🗸	with cte as (SELECT YEAR(i.InvoiceDate) AS Year, SUM(il.Quantity) AS TotalTracksSold
65	FROM invoice i
66	JOIN invoiceline il ON i.InvoiceId = il.InvoiceId
67	<pre>GROUP BY YEAR(i.InvoiceDate))</pre>
68	select Year, SUM(TotalTracksSold) OVER (ORDER BY Year) AS CumulativeTotalTracksSold from cte
69	ORDER BY Year;
70	



```
کاربرانی که مجموع خریدشان باالتر از میانگین مجموع خرید تمام کاربران است .9 --
78
79
           with cte as (
80
           select Sum(Total) TotalPurchases,CustomerId
81
           from invoice i
82
           group by CustomerId )
83
           select distinct c.CustomerId,c.FirstName,c.LastName,cte.TotalPurchases
84
85
           join customer c on cte.CustomerId=c.CustomerId
           where TotalPurchases > (select AVG(TotalPurchases) from cte);
86
87
88
```

