1. Вывести 10 клиентов (id, имя, номер телефона, компания), которых обслужлуживают сотрудники старше 50 лет, оплативших музыку в любом жанре кроме Rock, выходные данные должны быть отсортированы по городу клиента в алфавитном порядке и емейлу в обратном.

**SELECT DISTINCT Customer.CustomerId, Customer.FirstName, Customer.Phone, Customer.Company from Customer, Employee, Invoice, InvoiceLine**

**WHERE Employee.EmployeeId = Customer.SupportRepId**

**AND date('now') - Employee.BirthDate > 50**

**AND Invoice.InvoiceId = InvoiceLine.InvoiceId**

**AND Invoice.CustomerId = Customer.CustomerId**

**AND InvoiceLine.TrackId IN (SELECT TrackId FROM Track Where GenreId != (SELECT GenreId FROM Genre WHERE Name = "Rock"))**

**ORDER By Employee.City ASC, Employee.Email DESC LIMIT 10**

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1. Вывести список пользователей (полное имя, телефон) с указанием руководителя (полное имя, телефон).

**SELECT Employee.FirstName, Employee.Phone, Customer.FirstName, Customer.Phone From Employee, Customer**

**WHERE Employee.EmployeeId = Customer.SupportRepId**

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1. Вывести отсортированный список клиентов (имя, телефон) оплативших самые дорогие музыкальные треки.

**SELECT Customer.FirstName, Customer.Phone FROM Customer, Track, Invoice, InvoiceLine**

**WHERE Customer.CustomerId = Invoice.CustomerId**

**AND Invoice.InvoiceId = InvoiceLine.InvoiceId**

**AND InvoiceLine.TrackId = Track.TrackId**

**AND Track.UnitPrice = (SELECT max(UnitPrice) From Track)**

**Order by Customer.CustomerId**

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1. Вывести покупателей (полное имя, номер телефона) которые что либо покупали, проживающих в одном городе, если их кол-во в городе больше 1.

**SELECT DISTINCT Customer.FirstName, Customer.LastName, Customer.Phone From Customer, Invoice**

**WHERE Customer.CustomerId = Invoice.CustomerId**

**AND Customer.City in (SELECT City FROM (SELECT CNT , City**

**FROM (SELECT City, COUNT(City) as CNT FROM Customer**

**WHERE City is not NULL**

**group by City**

**order by count(\*) desc) as Cities)**

**WHERE CNT > 1)**

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1. Вывести топ 3 самых платежеспособных города за все время.

**SELECT Invoice.BillingCity, sum(Invoice.Total) FROM Invoice**

**group by Invoice.BillingCity**

**order by sum(Invoice.Total) DESC Limit 3**

1. Вывести самый популярный, на основании кол-ва продаж, жанр (название) и все треки в нем (название, альбом, исполнитель).

**Самый популярный Жанр:**

SELECT GenreId From Genre, (SELECT Genre.Name, sum(Buyed.counter) as TrackSell FROM Genre, Track, (SELECT TrackId, sum(Quantity) as counter FROM InvoiceLine

group by TrackId

order by TrackId) as Buyed

Where Buyed.TrackId = Track.TrackId

AND Track.GenreId = Genre.GenreId

GROUP by Genre.Name

ORDER by TrackSell DESC Limit 1

**Треки по самому популярному жанру вместе с жанром:**

SELECT Track.Name, Album.Title, Artist.Name, Genre.Name From Track, Album, Artist, Genre

WHERE Track.GenreId = (SELECT GenreId From Genre, (SELECT Genre.Name, sum(Buyed.counter) as TrackSell FROM Genre, Track, (SELECT TrackId, sum(Quantity) as counter FROM InvoiceLine

group by TrackId

order by TrackId) as Buyed

Where Buyed.TrackId = Track.TrackId

AND Track.GenreId = Genre.GenreId

GROUP by Genre.Name

ORDER by TrackSell DESC Limit 1) as PopularGenre

WHERE Genre.Name = PopularGenre.Name)

AND Album.AlbumId = Track.AlbumId

AND Artist.ArtistId = Album.ArtistId

AND Genre.GenreId = Track.GenreId