

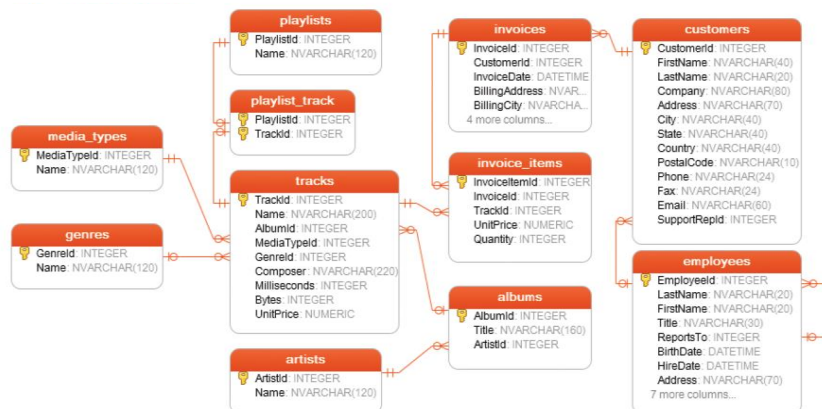


## Query Time



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WAY TO REINVENT YOURSELF

Write a query that returns the track name using tracks table.



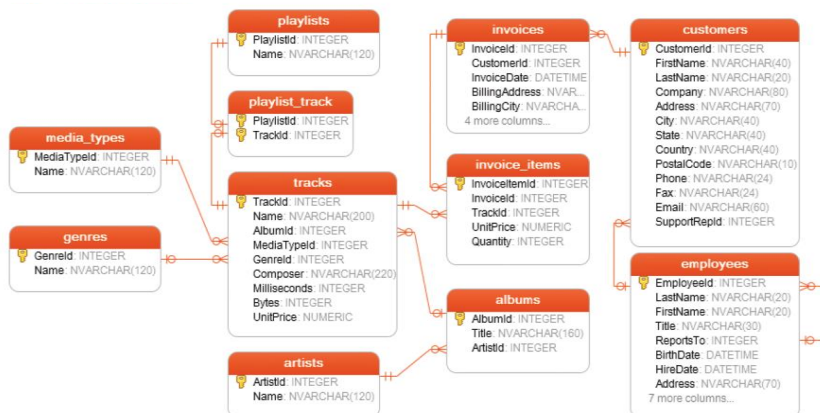
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The diagram illustrates the relationships between the following tables and their attributes:

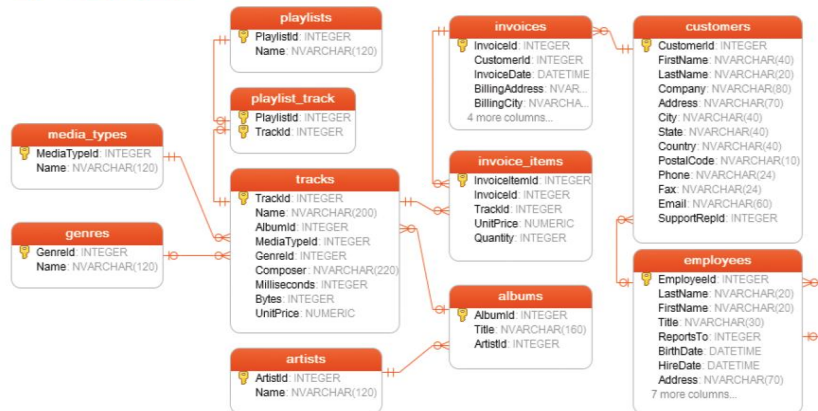
- media\_types**: MediaTypeId (INTEGER), Name (NVARCHAR(120))
- genres**: GenreId (INTEGER), Name (NVARCHAR(120))
- artists**: ArtistId (INTEGER), Name (NVARCHAR(120))
- tracks**: TrackId (INTEGER), Name (NVARCHAR(200)), AlbumId (INTEGER), MediaTypeId (INTEGER), GenreId (INTEGER), Composer (NVARCHAR(220)), Milliseconds (INTEGER), Bytes (INTEGER), UnitPrice (NUMERIC)
- albums**: AlbumId (INTEGER), Title (NVARCHAR(160)), ArtistId (INTEGER)
- playlists**: PlaylistId (INTEGER), Name (NVARCHAR(120))
- playlist\_track**: PlaylistId (INTEGER), TrackId (INTEGER)
- invoices**: InvoiceId (INTEGER), CustomerId (INTEGER), InvoiceDate (DATETIME), BillingAddress (NVARCHAR(40)), BillingCity (NVARCHAR(40)), and 4 more columns...
- invoice\_items**: InvoiceItemId (INTEGER), InvoiceId (INTEGER), TrackId (INTEGER), UnitPrice (NUMERIC), Quantity (INTEGER)
- customers**: CustomerId (INTEGER), FirstName (NVARCHAR(40)), LastName (NVARCHAR(20)), Company (NVARCHAR(80)), Address (NVARCHAR(70)), City (NVARCHAR(40)), State (NVARCHAR(40)), Country (NVARCHAR(40)), PostalCode (NVARCHAR(10)), Phone (NVARCHAR(24)), Fax (NVARCHAR(24)), Email (NVARCHAR(60)), SupportRepId (INTEGER)
- employees**: EmployeeId (INTEGER), LastName (NVARCHAR(20)), FirstName (NVARCHAR(20)), Title (NVARCHAR(30)), ReportsTo (INTEGER), BirthDate (DATETIME), HireDate (DATETIME), Address (NVARCHAR(70)), and 7 more columns...

Relationships are indicated by lines with crow's foot notation symbols:

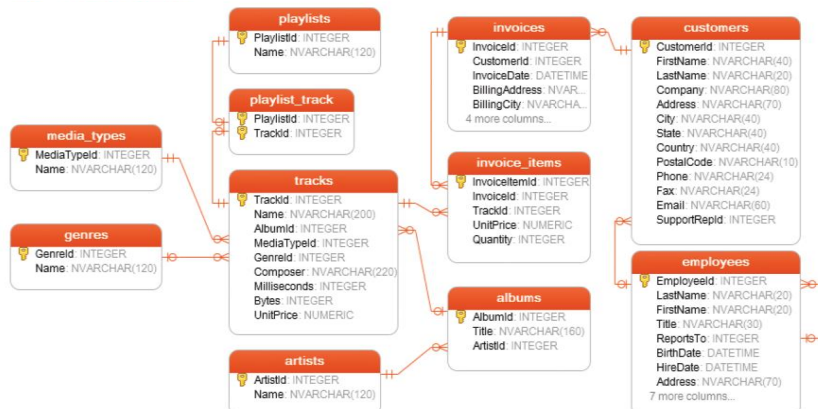
- media\_types** to **tracks**: Mandatory one-to-many relationship.
- genres** to **tracks**: Mandatory one-to-many relationship.
- artists** to **albums**: Mandatory one-to-many relationship.
- artists** to **tracks**: Mandatory one-to-many relationship.
- albums** to **tracks**: Mandatory one-to-many relationship.
- playlists** to **playlist\_track**: Mandatory one-to-many relationship.
- playlist\_track** to **tracks**: Mandatory many-to-many relationship.
- invoices** to **invoice\_items**: Mandatory one-to-many relationship.
- customers** to **invoices**: Mandatory one-to-many relationship.
- employees** to **customers**: Mandatory one-to-many relationship.
- employees** to **employees**: Self-referencing mandatory one-to-many relationship for reporting structure.



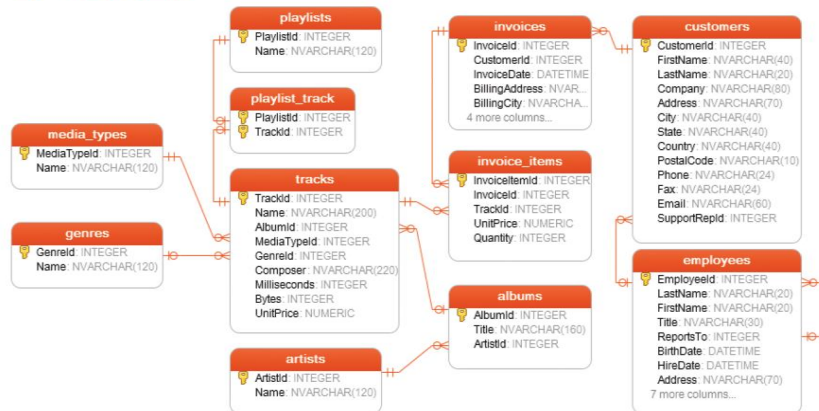
Write a query that returns columns of tracks table.



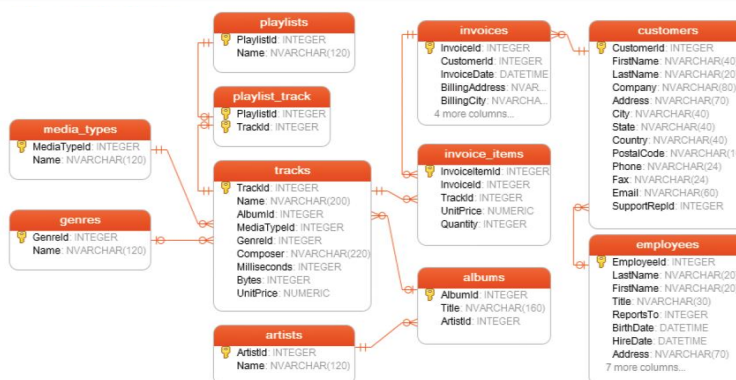
Find the name of composers of each track using tracks table.



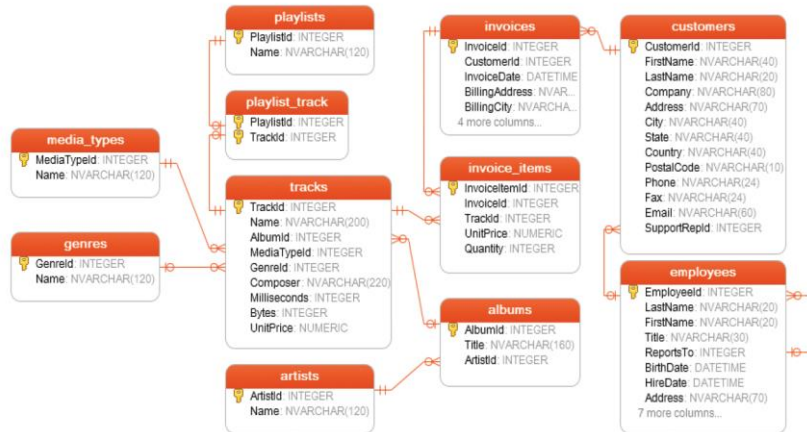
Write a query that return distinct AlbumId, MediaTypeId pair



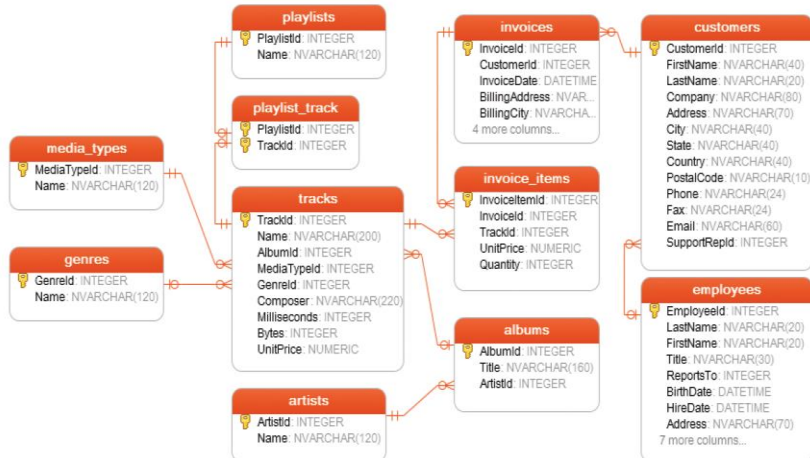
Find the track names of Jimi Hendrix.



Find all the info of the invoices of which total amount is greater than \$10.

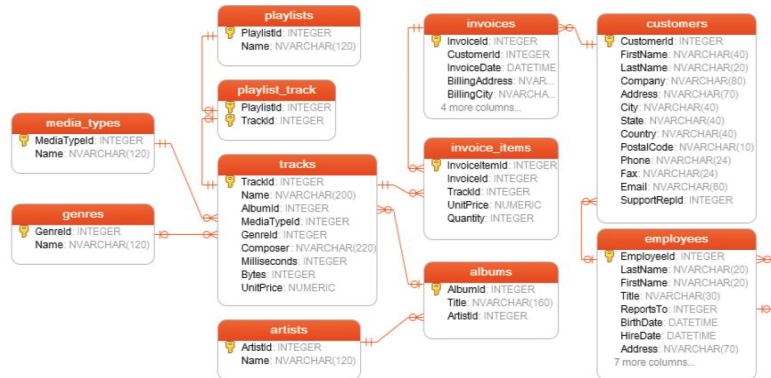


Find all the info of the invoices of which total amount is greater than \$10. Just return the first 4

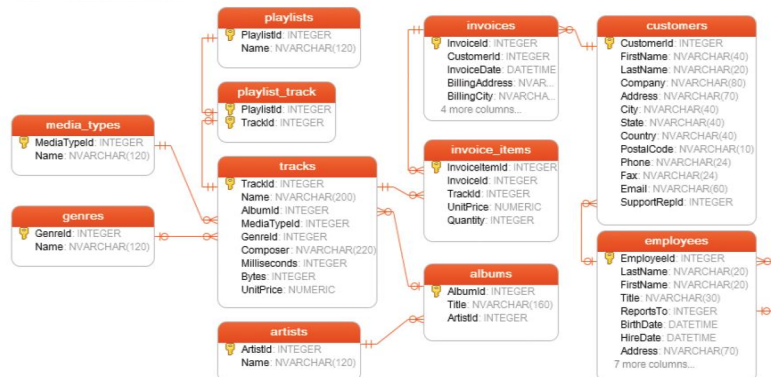




Find all the info of the invoices of which total amount is greater than \$10. Then sort them by the total amount in descending order.

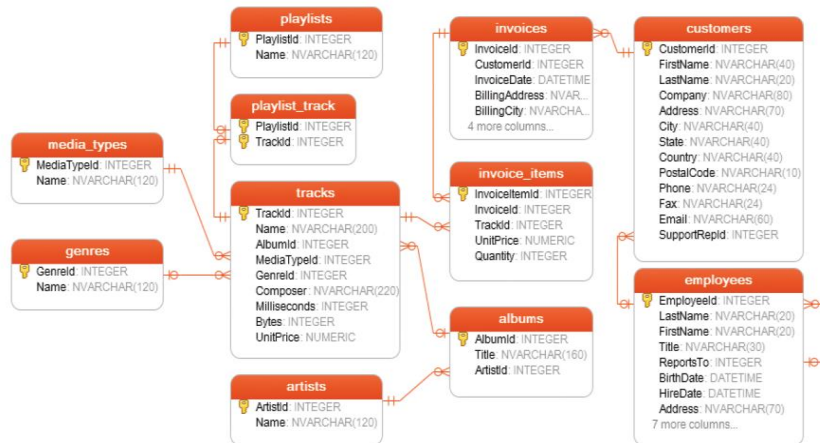


Find all the info of the invoices of which billing country is not USA. Then sort them by the total amount in ascending order.

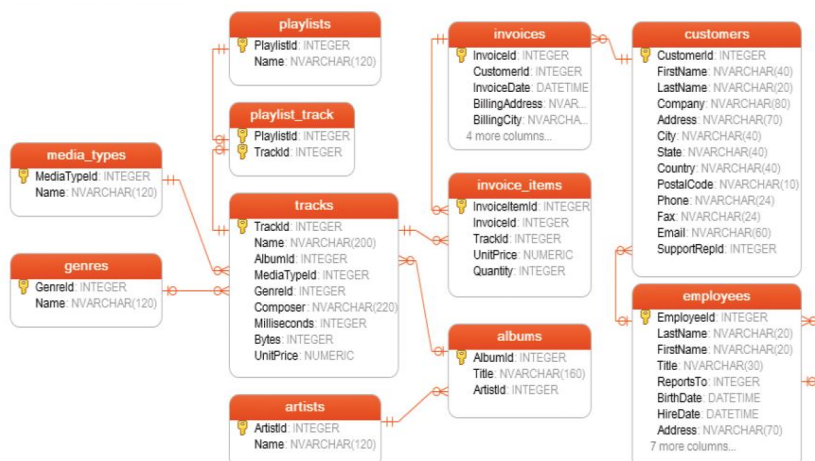




Find the newest invoice date among the invoice dates between 2009 and 2011.



Find the first and last name of the customers who gave an order from Belgium, Norway, Canada and USA.



Find the track names of Bach.

