**Q1: Who Are The Top 3 Jazz Artists With Highst Track Number?**

**SELECT** s.Name Artist,

**count**(t.TrackId) Tracks

**FROM** Track t

**JOIN** Album a **ON** t.AlbumId = a.AlbumId

**JOIN** Artist s **ON** a.ArtistId = s.ArtistId

**JOIN** Genre **g** **ON** t.GenreId = **g**.GenreId

**WHERE** **g**.Name = "Jazz"

**GROUP** **BY** 1

**ORDER** **BY** 2 **DESC**

**LIMIT** 3;

**Q2: What Is The Total Invoice Count For The Top Genre In Each Country?**

**SELECT** t3.Country,

t3.Genre,

t2.Max\_Total

**FROM**

(**SELECT** i.BillingCountry Country,

**g**.Name Genre,

**sum**(i.Total) Totals

**FROM** Invoice i

**JOIN** InvoiceLine il **ON** i.InvoiceId = il.InvoiceId

**JOIN** Track t **ON** t.TrackId = il.TrackId

**JOIN** Genre **g** **ON** t.GenreId = **g**.GenreId

**GROUP** **BY** 1,

2) t3

**JOIN**

(**SELECT** t1.Country,

**max**(t1.Totals) Max\_Total

**FROM**

(**SELECT** i.BillingCountry Country,

**g**.Name Genre,

**sum**(i.Total) Totals

**FROM** Invoice i

**JOIN** InvoiceLine il **ON** i.InvoiceId = il.InvoiceId

**JOIN** Track t **ON** t.TrackId = il.TrackId

**JOIN** Genre **g** **ON** t.GenreId = **g**.GenreId

**GROUP** **BY** 1,

2) **AS** t1

**GROUP** **BY** 1) **AS** t2 **ON** t2.Country = t3.Country

**AND** t3.Totals =t2.Max\_Total

**GROUP** **BY** 1,

2

**ORDER** **BY** 3 **DESC**;

**Q3: Who Are The Customers With Invoices Units Above Average?**

**SELECT** **c**.CustomerId,

**c**.FirstName,

**c**.LastName,

il.InvoiceId,

**sum**(il.Quantity) Qty

**FROM** Customer **c**

**JOIN** Invoice i **ON** **c**.CustomerId = i.CustomerId

**JOIN** InvoiceLine il **ON** i.InvoiceId = il.InvoiceId

**GROUP** **BY** **c**.CustomerId,

**c**.FirstName,

**c**.LastName,

il.InvoiceId

**HAVING** Qty >

(**SELECT** **avg**(units) Mean

**FROM**

(**SELECT** InvoiceId,

**sum**(Quantity) units

**FROM** InvoiceLine

**GROUP** **BY** 1) t1)

**ORDER** **BY** Qty **DESC**;

**Q4: What Are The Top Invoice Counts Per Artist Per Sales Employee?**

**SELECT** t2.EmployeeId,

t2.FirstName,

t2.LastName,

t3.Artist,

t3.Inv\_Count Highest\_Inv

**FROM**

(**SELECT** e.EmployeeId,

e.FirstName,

e.LastName,

s.Name Artist,

**count**(i.InvoiceId) Inv\_Count

**FROM** Employee e

**JOIN** Customer **c** **ON** e.EmployeeId = **c**.SupportRepId

**JOIN** Invoice i **ON** **c**.CustomerId = i.CustomerId

**JOIN** InvoiceLine il **ON** i.InvoiceId = il.InvoiceId

**JOIN** Track t **ON** il.TrackId = t.TrackId

**JOIN** Album a **ON** t.AlbumId = a.AlbumId

**JOIN** Artist s **ON** a.ArtistId = s.ArtistId

**GROUP** **BY** 1,

2,

3,

4) **AS** t3 **JOIN**

(**SELECT** t1.EmployeeId, t1.FirstName, t1.LastName, **max**(Inv\_Count) Max\_Inv

**FROM**

(**SELECT** e.EmployeeId, e.FirstName, e.LastName, s.Name Artist, **count**(i.InvoiceId) Inv\_Count

**FROM** Employee e

**JOIN** Customer **c** **ON** e.EmployeeId = **c**.SupportRepId

**JOIN** Invoice i **ON** **c**.CustomerId = i.CustomerId

**JOIN** InvoiceLine il **ON** i.InvoiceId = il.InvoiceId

**JOIN** Track t **ON** il.TrackId = t.TrackId

**JOIN** Album a **ON** t.AlbumId = a.AlbumId

**JOIN** Artist s **ON** a.ArtistId = s.ArtistId

**GROUP** **BY** 1, 2, 3, 4) **AS** t1

**GROUP** **BY** 1, 2, 3) **AS** t2 **ON** t2.EmployeeId = t3.EmployeeId

**AND** t2.Max\_Inv = t3.Inv\_Count

**GROUP** **BY** 1,

2,

3,

4

**ORDER** **BY** 5 **DESC**;