**1. Find the genre which has at most 1 track. Print the name of such genre.**

SELECT G.name

FROM Track T, Genre G

WHERE G.GenreId = T.GenreId

GROUP BY G.GenreId

HAVING COUNT(\*) <= 1;

**2. Find the tracks that were purchased in California (CA) or Washington (WA). Print the name of such tracks.**

SELECT T.Name

FROM Track T, Invoice I, InvoiceLine IL

WHERE (IL.InvoiceId = I.InvoiceId) AND (IL.TrackId = T.TrackId) AND (I.BillingState = "CA" OR I.BillingState = "WA");

**3. Find the tracks that have been purchased in quantities greater than 5. Print the name of such tracks.**

SELECT T.name

FROM Track T, InvoiceLine L

WHERE T.TrackId = L.TrackId

GROUP BY L.TrackId

HAVING COUNT (\*) > 5;

**4. Find the tracks which cost less than a dollar but the track length (Milliseconds) is more than the average track length in this database. Print the name of such tracks.**

SELECT T.Name

FROM Track T

WHERE T.UnitPrice < 1

AND T.Milliseconds > (SELECT AVG(T2.Milliseconds)

                          FROM Track T2);

**5.** **Find the playlists which have one or more tracks that have never been purchased. Print the Id, and the name of such playlists.**

SELECT DISTINCT P.PlaylistId, P.Name

FROM Playlist P, PlaylistTrack PT

WHERE (P.PlaylistId = PT.PlaylistId)

AND PT.TrackId NOT IN (SELECT TrackId FROM InvoiceLine)

**6. Find the playlists where the composer is not specified for 10 or more tracks. Print the Id, and the name of such playlists.**

SELECT P.Name, P.PlaylistID

FROM PlaylistTrack PT, Track T, Playlist P

WHERE (P.PlaylistId = PT.PlaylistId)

AND (PT.TrackId = T.TrackId)

AND (T.Composer IS NULL)

GROUP BY PT.PlaylistId

HAVING COUNT(\*) > 10;

**7. Find the playlists where all the tracks are by the same composer. Print the Id, and the name of such playlists.**

SELECT P.Name, P.PlaylistId

FROM Playlist P, Track T, PlaylistTrack PT

WHERE P.PlaylistId = PT.PlaylistId

AND PT.TrackId = T.TrackId

GROUP BY PT.PlaylistId

HAVING COUNT(DISTINCT T.Composer) = 1;

**8. Find the playlists with 50 or more composers. Print the Id, and the name of such playlists.**

SELECT DISTINCT P.PlaylistId, P.Name

FROM PlaylistTrack PT, Playlist P, Track T

WHERE (P.PlaylistId = PT.PlaylistId)

AND (PT.TrackId = T.TrackId)

GROUP BY P.PlaylistId

HAVING (COUNT(T.Composer) >= 50) AND T.Composer IS NOT NULL;

**9. Find all the customers who have invoice total greater than 5.65. Print the first and last name, postal code, and invoice total for such customers.**

SELECT C.Firstname, C. LastName, C.PostalCode, I.Total

FROM Customer C, Invoice I

WHERE (C.CustomerId = I.CustomerId) AND (I.Total > 5.65);

**10. Find all the Employees to whom no other employee reports to. Print the Id, and rh first and last name of such employees.**

SELECT E.EmployeeId, E.FirstName, E.LastName

FROM Employee E

WHERE E.EmployeeId NOT IN (SELECT DISTINCT E2.ReportsTo FROM Employee E2);