

HW3 - SQL

GROUP: 4

Team Members:

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Q1.

```
select Name as Track_with_longest_length from  
Track where Milliseconds in (select  
Max(Milliseconds) from Track);
```

```
mysql> select Name as Track_with_longest_length from Track where Milliseconds in (select Max(Milliseconds) from Track);  
+-----+  
| Track_with_longest_length |  
+-----+  
| Under Pressure            |  
+-----+  
1 row in set (0.00 sec)
```

Q2. - Distinct Audio Tracks are selected Here

```
select count(distinct T.Name) as  
no_of_Audio_tracks_Indian from Track as  
T,Listener as L , ListeningTo as LT where  
L.ListenerID = LT.ListenerID and LT.TrackID =  
T.TrackID and L.Nationality = "Indian" group by  
L.Nationality ;
```

```
mysql> select count(distinct T.Name) as no_of_Audio_tracks_Indian from Track as T,Listener as L , ListeningTo as LT where L.ListenerID = LT.ListenerID and LT.TrackID = T.TrackID and L.Nationality = "Indian" group by L.Nationality ;  
+-----+  
| no_of_Audio_tracks_Indian |  
+-----+  
| 12 |  
+-----+  
1 row in set (0.00 sec)
```

Q3.

```
select A.Name as Max_Album_space from Album as A  
, Track as T where T.AlbumID = A.AlbumID group  
by T.AlbumID having sum(Bytes) >= ALL(select  
sum(Bytes) from Album as A , Track as T where  
A.AlbumID = T.AlbumID group by T.AlbumID) ;
```

```
mysql> select A.Name as Max_Album_space from Album as A , Track as T where T.AlbumID = A.AlbumID group by T.AlbumID having sum(Bytes) >= ALL(select sum(Bytes) from Album as A , Track as T where A.AlbumID = T.AlbumID group by T.AlbumID) ;  
+-----+  
| Max_Album_space |  
+-----+  
| Under Pressure |  
+-----+  
1 row in set (0.00 sec)
```

Q4.

```
select L.Nationality from Listener as L ,  
ListeningTo as LT where L.ListenerID =  
LT.ListenerID group by L.Nationality having  
count(L.Nationality) <= ALL(select  
count(L.Nationality) from Listener as L ,  
ListeningTo as LT where L.ListenerID =  
LT.ListenerID group by L.Nationality);
```

```
mysql> select L.Nationality from Listener as L , ListeningTo as LT where L.ListenerID = LT.ListenerID group by L.Nationality having count(L.Nationality)  
<= ALL(select count(L.Nationality) from Listener as L , ListeningTo as LT where L.ListenerID = LT.ListenerID group by L.Nationality);  
+-----+  
| Nationality |  
+-----+  
| American    |  
+-----+  
1 row in set (0.00 sec)
```

Q5.

```
select G.Name from Genre as G , ListeningTo as
LT , Listener as L , Track as T where
L.ListenerID = LT.ListenerID and LT.TrackID =
T.TrackID and G.GenreID = T.GenreID and
L.Nationality = "American" group by G.Name
having count(G.Name) >= ALL(select count(G.Name)
from Genre as G , ListeningTo as LT , Listener
as L , Track as T where L.ListenerID =
LT.ListenerID and LT.TrackID = T.TrackID and
G.GenreID = T.GenreID and L.Nationality =
"American" group by G.Name );
```

```
mysql> select G.Name from Genre as G , ListeningTo as LT , Listener as L , Track as T where L.ListenerID = LT.ListenerID and LT.TrackID = T.TrackID and
G.GenreID = T.GenreID and L.Nationality = "American" group by G.Name having count(G.Name) >= ALL(select count(G.Name) from Genre as G , ListeningTo as
LT , Listener as L , Track as T where L.ListenerID = LT.ListenerID and LT.TrackID = T.TrackID and G.GenreID = T.GenreID and L.Nationality = "American"
group by G.Name );
+-----+
| Name |
+-----+
| Rap  |
+-----+
1 row in set (0.00 sec)
```

Q6.

```
select Name from Artist except select distinct  
A.Name from Artist as A,Track as T where  
A.ArtistID = T.ArtistID;
```

```
mysql> select Name from Artist except select distinct A.Name from Artist as A,Track as T where A.ArtistID = T.ArtistID;  
+-----+  
| Name |  
+-----+  
| Venu Mallesh |  
+-----+  
1 row in set (0.00 sec)
```

Q7.

```
select Name from Artist except select distinct  
A.Name from Artist as A, Track as T , Genre as G  
where A.ArtistID = T.ArtistID and T.GenreID =  
G.GenreID and G.Name = "Pop";
```

```
mysql> select Name from Artist except select distinct A.Name from Artist as A, Track as T , Genre as G where A.ArtistID = T.ArtistID and T.GenreID = G.  
GenreID and G.Name = "Pop";  
+-----+  
| Name |  
+-----+  
| Logic |  
| Venu Mallesh |  
+-----+  
2 rows in set (0.00 sec)
```