

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 trackID) as  
no_track_Indian from ListeningTo where  
ListenerID in (select ListenerID from  
Listener where Nationality="Indian");
```

```
mysql> select count(distinct trackID) as no_track_Indian from ListeningTo where ListenerID in (select ListenerID from Listener where Nationality="Indian");  
+-----+  
| no_track_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
SUM(Milliseconds) <= ALL(select
SUM(Milliseconds) 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 SUM(Milliseconds) <= A
LL(select SUM(Milliseconds) from Listener as L,ListeningTo as LT where L.ListenerID = LT.ListenerID group by L.Nationality);
+-----+
| Nationality |
+-----+
| Indian      |
+-----+
1 row in set (0.00 sec)
```

Q5.

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

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