

# HW3 - SQL

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## 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
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          |
+-----+
| Vennu 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         |
| Vennu Mallesh |
+-----+
2 rows in set (0.00 sec)
```