

Radio Network Database

SQL Challenge



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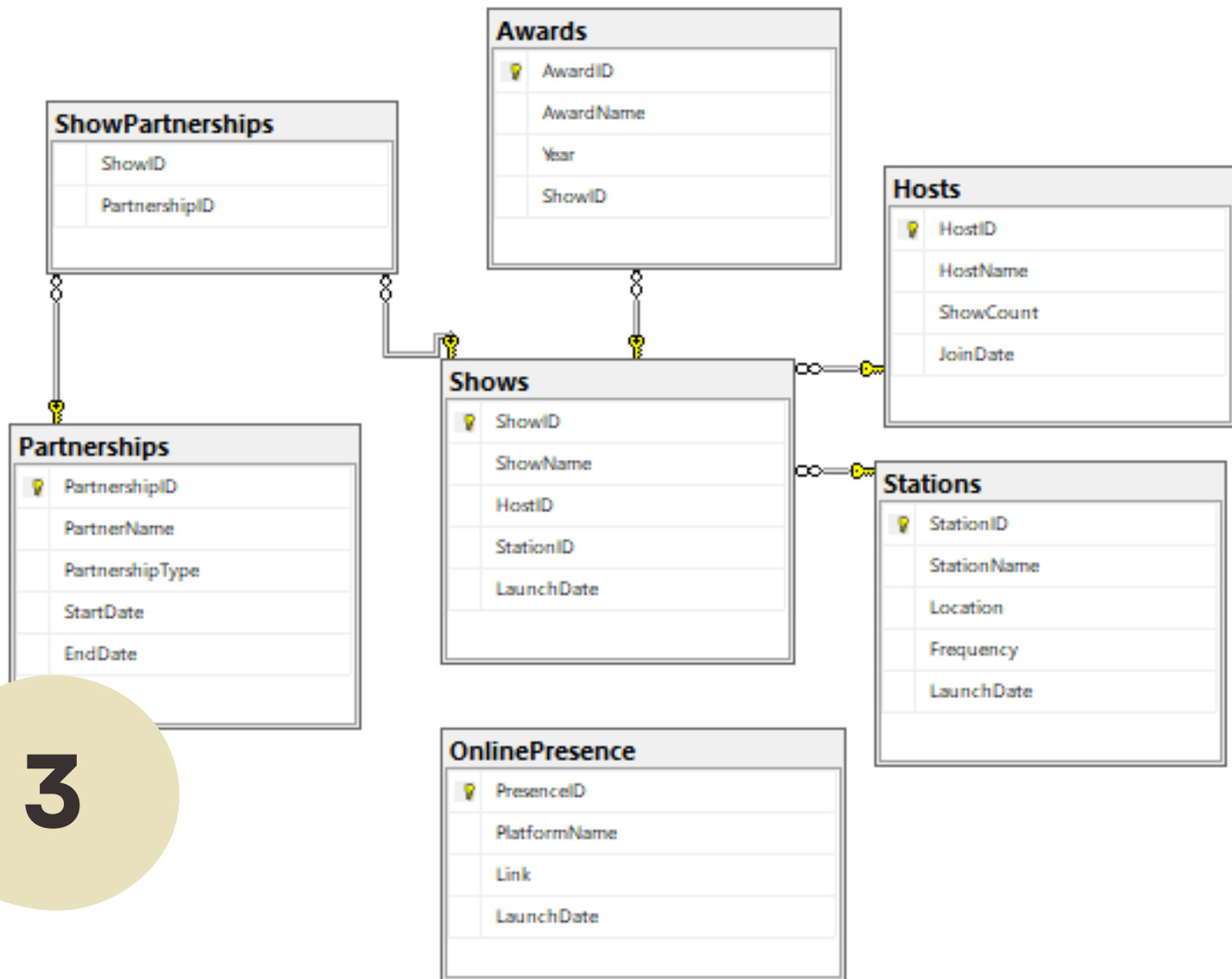


Introduction

This challenge involves writing SQL queries to extract insights from the **92.7 BIG FM** radio network database provided by **DigitsnData**. The key tables used for solving queries include; Stations, Hosts, Shows, Partnerships, ShowPartnerships, Awards, and online presence. Each query is designed to reveal specific details about the radio network's .

Join me in this exciting journey of exploring the data of the 92.7 BIG FM radio network.

ER Diagram



1.

Retrieve all stations in the "East" region.

```
1  SELECT
2    StationID,
3    StationName,
4    Location
5  FROM
6    Stations
7  WHERE
8    Location = 'East'
9
10 --OUTPUT
11 +-----+-----+-----+
12 | StationID | StationName | Location |
13 +-----+-----+-----+
14 |      1   |   Asansol   |   East   |
15 |      2   | Bhubaneswar |   East   |
16 |      3   |  Guwahati   |   East   |
17 |      4   | Jamshedpur  |   East   |
18 |      5   |   Kolkata   |   East   |
19 |      6   |   Ranchi    |   East   |
20 |      7   |   Rourkela  |   East   |
21 +-----+-----+-----+
```

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2.

List all shows hosted by "Vrajesh Hirjee".

5

```
1  WITH ShowHostData AS (  
2      SELECT  
3          s.ShowID,  
4          s.ShowName,  
5          h.HostName  
6      FROM  
7          Shows s  
8      JOIN  
9          Hosts h  
10     ON  
11         s.HostID = h.HostID  
12 )  
13  
14 SELECT *  
15 FROM ShowHostData  
16 WHERE HostName = 'Vrajesh Hirjee';  
17  
18 --OUTPUT  
19 | ShowID | ShowName | HostName |  
20 |-----|-----|-----|  
21 | 5      | 21 Din Wellness In with Sunil Shetty | Vrajesh Hirjee |
```

3.

Count the number of awards each show has won.

```
1  SELECT
2      s.ShowName,
3      COUNT(AwardID) AS TotalAwards
4  FROM
5      Shows s
6  JOIN
7      Awards a
8  ON
9      a.ShowID = s.ShowID
10 GROUP BY
11     s.ShowName
12
13 --OUTPUT
14 +-----+-----+
15 | Show Name          | Value |
16 +-----+-----+
17 | 21 Din Wellness In... | 1     |
18 | Dhun Badal Ke Toh... | 1     |
19 | Dhun Badal Ke Toh... | 1     |
20 | Green Ganesha       | 1     |
21 | Suhaana Safar with... | 1     |
22 | Yaadon Ka Idiot Bo... | 1     |
23 +-----+-----+
```

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4.

Find shows that have partnerships with "Spotify".

```
1  WITH spotifypartnerships
2      AS (SELECT s.showname,
3              p.partnername
4            FROM shows s
5            JOIN showpartnerships sp
6              ON s.showid = sp.showid
7            JOIN partnerships p
8              ON sp.partnershipid = p.partnershipid
9            WHERE partnername = 'Spotify')
10
11 SELECT *
12 FROM   spotifypartnerships
13
14 --OUTPUT
15 +-----+-----+
16 | ShowName          | PartnerName |
17 +-----+-----+
18 | Suhaana Safar with Annu Kapoor | Spotify |
19 +-----+-----+
```

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5.

Retrieve hosts who joined before 2010.

```
1  SELECT hostname,
2         joindate
3  FROM    hosts
4  WHERE   Year(joindate) < 2010
5
6  --OUTPUT
7  +-----+-----+
8  |      HostName      | JoinDate |
9  +-----+-----+
10 | Vrajesh Hirjee     | 2006-09-01 |
11 | Annu Kapoor        | 2006-09-01 |
12 | Neelesh Misra      | 2006-09-01 |
13 | Bhawana Somaaya    | 2006-09-01 |
14 | Kamini Khanna      | 2006-09-01 |
15 | Richa Anirudh      | 2006-09-01 |
16 | RJ Khaas Koushik   | 2006-09-01 |
17 | RJ Pat Pat Pataki Shruti | 2006-09-01 |
18 | RJ Rapid Rashmi    | 2006-09-01 |
19 | RJ Rani            | 2006-09-01 |
20 | RJ Khurafati Nitin | 2006-09-01 |
21 | RJ Sangram         | 2006-09-01 |
22 | RJ Abhilash        | 2006-09-01 |
23 +-----+-----+
```

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6.

List the shows and their launch dates in descending order of launch date.

```
1  SELECT
2    ShowName,
3    LaunchDate
4  FROM
5    Shows
6  ORDER BY
7    LaunchDate DESC
8
9  --OUTPUT
10 +-----+-----+
11 |                ShowName                | LaunchDate |
12 +-----+-----+
13 | 21 Din Wellness In with Sunil Shetty    | 2023-01-01 |
14 | Green Ganesha                          | 2023-01-01 |
15 | Dhun Badal Ke Toh Dekho Season 1 (with Vidya Balan) | 2019-01-01 |
16 | Dhun Badal Ke Toh Dekho Season 2 (with Sadhguru)   | 2019-01-01 |
17 | Suhaana Safar with Annu Kapoor          | 2006-09-01 |
18 | Yaadon Ka Idiot Box with Neelesh Misra    | 2006-09-01 |
19 +-----+-----+
```

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7.

Find the total count of shows for each host.

```
1 SELECT hostname,
2     showcount
3 FROM   hosts
4 ORDER BY showcount DESC
5
6 --OUTPUT
7 +-----+-----+
8 |      HostName      | ShowCount |
9 +-----+-----+
10 | Annu Kapoor        | 3         |
11 | RJ Rapid Rashmi    | 3         |
12 | RJ Khurafati Nitin | 2         |
13 | Neelesh Misra      | 2         |
14 | Richa Anirudh      | 2         |
15 | Vrajesh Hirjee     | 2         |
16 | RJ Pat Pat Pataki Shruti | 2         |
17 | RJ Khaas Koushik   | 1         |
18 | Bhawana Somaaya    | 1         |
19 | Kamini Khanna      | 1         |
20 | RJ Sangram         | 1         |
21 | RJ Abhilash        | 1         |
22 | RJ Rani            | 1         |
23 +-----+-----+
```

10



8.

Show the online presence platforms with their links.

```
1  SELECT
2      PlatformName,
3      Link
4  FROM
5      OnlinePresence
6
7  --OUTPUT
8  +-----+-----+
9  | PlatformName | Link |
10 +-----+-----+
11 | Spotify      | https://open.spotify.com/bigfm |
12 | Gaana        | https://gaana.com/bigfm |
13 | JioSaavn     | https://www.jiosaavn.com/bigfm |
14 | Hungama Music | https://www.hungama.com/bigfm |
15 | BIG Living Shop | https://bigliving.shop |
16 +-----+-----+
```

9.

Retrieve the stations in the "South" region launched after 2010.

```
1  SELECT
2      StationID,
3      StationName,
4      Location
5  FROM
6      Stations
7  WHERE
8      Location = 'South'
9      AND LaunchDate > '2010-01-01'
10
11  --OUTPUT
12  +-----+-----+-----+
13  | StationID | StationName | Location |
14  +-----+-----+-----+
15  |           |             |          |
16  +-----+-----+-----+
```

12



10.

Rank hosts based on the number of shows they have hosted.

```
1  WITH HostRankCTE
2      AS (SELECT HostName,
3              ShowCount,
4                  Dense_rank()
5                  OVER (
6                      ORDER BY showcount DESC) AS HostRank
7      FROM Hosts)
8  SELECT *
9  FROM HostRankCTE
10
11  --OUTPUT
12  +-----+-----+-----+
13  | HostName | ShowCount | HostRank |
14  +-----+-----+-----+
15  | Annu Kapoor | 3 | 1 |
16  | RJ Rapid Rashmi | 3 | 1 |
17  | RJ Khurafati Nitin | 2 | 2 |
18  | Neelesh Misra | 2 | 2 |
19  | Richa Anirudh | 2 | 2 |
20  | Vrajesh Hirjee | 2 | 2 |
21  | RJ Pat Pat Pataki Shruti | 2 | 2 |
22  | RJ Khaas Koushik | 1 | 3 |
23  | Bhawana Somaaya | 1 | 3 |
24  | Kamini Khanna | 1 | 3 |
25  | RJ Sangram | 1 | 3 |
26  | RJ Abhilash | 1 | 3 |
27  | RJ Rani | 1 | 3 |
28  +-----+-----+-----+
```



Endnote

Thanks to DigitsnData for this engaging data exploration challenge, helping us understand SQL better.

Appreciate the insightful challenge!



Thanks for Reading



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