Assignment 1 (SQL Comprehension)

1. Select Count(Id) from Users;

ANSWER:

**8370711**

2. Select AVG(Age) As AvgAge from Users where Age is not null;

ANSWER:

**31**

3.Select Count(Id) from Users where CreationDate >= '2010-01-01 00:00:01';

ANSWER:

**8270791**

4.select count(PostTypes.Id) from Users

join Posts on Users.AccountId = Posts.Id

join PostTypes on Posts.PostTypeId = PostTypes.Id

where PostTypes.Name = 'Question' and Users.DisplayName = 'Mat Mannion';

ANSWER:

A.**0**

5.Select DisplayName,MAX(Reputation) AS MostRep,Count(Badges.Name) AS BadgesQuantity from users join badges on users.AccountId = badges.UserId

where Location = 'South Africa' and name = 'Enlightened' and Badges.Date >= '2016-01-01 00:00:01' and Badges.date <= '2016-12-31 00:00:00'

GROUP BY DisplayName;

ANSWER:

|  |  |  |
| --- | --- | --- |
| **DisplayName** | **MaxRep** | **BadgesQuantity** |
| **Bighit** | **11** | **1** |
| **allanchang** | **11** | **1** |
| **ginjal** | **13** | **2** |
| **proze** | **1** | **4** |
| **c0D3l0g1c** | **1262** | **4** |
| **Senkwe** | **1233** | **1** |
| **SetiSeeker** | **1749** | **1** |
| **Cornel Masson** | **749** | **1** |
| **Jacques Buitendag** | **1** | **2** |
| **Kryten** | **1468** | **1** |
| **NetRunner** | **79** | **2** |
| **RabtFt** | **78** | **1** |
| **Ronald Subi** | **1** | **1** |
| **rusvdw** | **408** | **2** |
| **Tawanda** | **14** | **2** |
| **Martin** | **5717** | **14** |
| **Cobus Kruger** | **3477** | **2** |
| **GabriÃ«l Wolmarans** | **81** | **6** |
| **hdlmsa** | **32** | **1** |
| **Pomster** | **4256** | **1** |

6. Select DisplayName,MAX(Reputation) AS MostRep,Count(Badges.Name) AS BadgesQuantity from users inner join badges on users.AccountId = badges.UserId

where Location = 'South Africa' and name = 'Enlightened' and Badges.Date >= '2016-01-01 00:00:01' and Badges.date <= '2016-12-31 00:00:00'

GROUP BY DisplayName;

|  |  |  |
| --- | --- | --- |
| **DisplayName** | **MaxRep** | **BadgesQuantity** |
| **Bighit** | **11** | **1** |
| **allanchang** | **11** | **1** |
| **ginjal** | **13** | **2** |
| **proze** | **1** | **4** |
| **c0D3l0g1c** | **1262** | **4** |
| **Senkwe** | **1233** | **1** |
| **SetiSeeker** | **1749** | **1** |
| **Cornel Masson** | **749** | **1** |
| **Jacques Buitendag** | **1** | **2** |
| **Kryten** | **1468** | **1** |
| **NetRunner** | **79** | **2** |
| **RabtFt** | **78** | **1** |
| **Ronald Subi** | **1** | **1** |
| **rusvdw** | **408** | **2** |
| **Tawanda** | **14** | **2** |
| **Martin** | **5717** | **14** |
| **Cobus Kruger** | **3477** | **2** |
| **GabriÃ«l Wolmarans** | **81** | **6** |
| **hdlmsa** | **32** | **1** |
| **Pomster** | **4256** | **1** |

The first query is the more optimal as it will always bring complete results. The second query use inner join which may affect the result is one of the columns is null.

7. Yes. The contradictions within the same statement where it read 'name of the most reputable "South Africa” user’ and then again 'how many

"Enlightened" badges did they receive in 2016? 'The "user" now talking about "they" meaning there are many users involved.

At Question 4 stated that 'since he joined ‘so that would be default creation date no need to specify it on the query.

Assignment 2 (Code Comprehension)

1. The test is attempting to test API with Jasmine framework using Request option to deal with HTTP client with a complete URL to send a request (to Get)a person and passing the Query parameters with Attribute Label with the value to search for stores the response ID to delete the response status code and review after the delete if the status code is not valid anymore by comparing to the not found status code.

2. Syntax errors in the last two request the single quotes.

3. Ping the API Server / Check Network Connection.