**Requirements:**

Requirement 1

1. Data from January 2001 to December 2001 (total emails by each day after 6PM)

|  |  |
| --- | --- |
| Date | Total Emails = Sent+Received+FW+CC |
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|  |  |

2. Need both CSV and json format

3. SQL query

**select** *MONTHNAME*(**date**) **AS** monthName , *MONTH*(**date**) **AS** monthID, *count*(*\**) **as** totalEmails  
**FROM** message  
**WHERE** *YEAR*(**date**) = 2001  
**AND** *HOUR*(**date**) >= 18  
**GROUP BY** *MONTH*(**date**)

Requirement 2

1. Data from January 2001 to December 2001 - for 52 weeks (total emails sent during weekday (Mon-Fri) and weekend (sat-sun)

|  |  |
| --- | --- |
| Weekdays  (Mon-Fri) | Total Emails = Sent+Received+FW+CC |
| 1 |  |
| 2 |  |
|  |  |
|  |  |
| - |  |
| - |  |
| 52 |  |

|  |  |
| --- | --- |
| Weekends  (Sat-Sun) | Total Emails = Sent+Received+FW+CC |
| 1 |  |
| 2 |  |
|  |  |
|  |  |
| - |  |
| - |  |
| 52 |  |

2. Need both CSV and json format

3. SQL query

Weekdays:

**select** *WEEK*(**date**) **AS** weekID , *count*(*\**) **as** totalEmails  
**FROM** message  
**WHERE** *YEAR*(**date**) = 2001  
**AND** *DAYOFWEEK*(**date**) **IN** (2, 3, 4, 5, 6)  
**GROUP BY** *WEEK*(**date**)  
**ORDER BY** *WEEK*(**date**)

Weekends:

**select** *WEEK*(**date**) **AS** weekID , *count*(*\**) **as** totalEmails  
**FROM** message  
**WHERE** *YEAR*(**date**) = 2001  
**AND** *DAYOFWEEK*(**date**) **IN** (1, 7)  
**GROUP BY** *WEEK*(**date**)  
**ORDER BY** *WEEK*(**date**)

Requirement 3

Data from January 2001 to December 2001 (total emails sent/received by each individual). I have selected three individuals.

[J.Kaminski@enron.com](mailto:J.Kaminski@enron.com)

|  |  |
| --- | --- |
| Date | Total Emails = Sent+Received+FW+CC |
|  |  |
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| - |  |
| - |  |
|  |  |

[Jeff.Dasovich@enron.com](mailto:Jeff.Dasovich@enron.com)

|  |  |
| --- | --- |
| Date | Total Emails = Sent+Received+FW+CC |
|  |  |
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| - |  |
| - |  |
|  |  |

[Kay.mann@enron.com](mailto:Kay.mann@enron.com)

|  |  |
| --- | --- |
| Date | Total Emails = Sent+Received+FW+CC |
|  |  |
|  |  |
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|  |  |
| - |  |
| - |  |
|  |  |

2. Need both CSV and json format

3. SQL quer

*# Data from January 2001 to December 2001 (total emails sent/received by each individual). I have selected three individuals.  
# J.Kaminski@enron.com -- sent***SELECT** *MONTHNAME*(**date**) **AS** monthName, *COUNT*(*\**) **AS** countOfEmails  
 **FROM** message m  
 **WHERE** *YEAR*(m.**date**) = 2001  
**AND** m.**sender** = "j.kaminski@enron.com"  
**GROUP BY** *MONTH*(**date**)  
  
*# J.Kaminski@enron.com -- recieved***SELECT** *MONTHNAME*(**date**) **AS** monthName, *COUNT*(*\**) **AS** countOfEmails  
 **FROM** message m, recipientinfo r  
 **WHERE** m.**mid** = r.**mid  
 AND** *YEAR*(m.**date**) = 2001  
**AND** r.**rvalue** = "j.kaminski@enron.com"  
**GROUP BY** *MONTH*(m.**date**)

Requirement 4

* Average weekly emails sent in the years 1999, 2000, 2001 and 2002?

**select** *YEAR*(m.**date**) **AS** yNAme,*WEEK*(**date**) **AS** weekID , *count*(*\**) **as** totalEmails  
**FROM** message m  
**WHERE** *YEAR*(m.**date**) **IN** (1999, 2000, 2001, 2002)  
**GROUP BY** *YEAR*(m.**date**), *WEEK*(**date**)  
**ORDER BY** *YEAR*(m.**date**), *WEEK*(**date**)

* Average monthly emails sent in the years 1999, 2000, 2001 and 2002?

**select** *YEAR*(m.**date**) **AS** yNAme,*MONTHNAME*(**date**) **AS month** , *count*(*\**) **as** totalEmails  
**FROM** message m  
**WHERE** *YEAR*(m.**date**) **IN** (1999, 2000, 2001, 2002)  
**GROUP BY** *YEAR*(m.**date**), *MONTH*(**date**)  
**ORDER BY** *YEAR*(m.**date**), *MONTH*(**date**)

* Average yearly emails sent in all the four years?

**select** *YEAR*(m.**date**) **AS** yNAme, *count*(*\**) **as** totalEmails  
**FROM** message m  
**WHERE** *YEAR*(m.**date**) **IN** (1999, 2000, 2001, 2002)  
**GROUP BY** *YEAR*(m.**date**)  
**ORDER BY** *YEAR*(m.**date**)

* j.kaminski’s self cc’d emails to be compared to jeff.dasovich and kay.mann over 12 months in both the years **2000** and **2001.**

**### self – CC dasovich**

**SELECT** *YEAR*(m.**date**) **AS** yNAme,  
 *MONTHNAME*(**date**) **AS** monthName,  
 *COUNT*(*\**) **AS** countOfEmails  
**FROM** message m, recipientinfo r  
**WHERE** m.**mid** = r.**mid  
 AND** *YEAR*(m.**date**) **IN** (2000, 2001)  
 **AND** m.**sender** = "jeff.dasovich@enron.com"  
 **AND** r.**rvalue** = "jeff.dasovich@enron.com"  
**GROUP BY** *YEAR*(m.**date**), *MONTH*(**date**)  
**ORDER BY** *YEAR*(m.**date**), *MONTH*(**date**)

[j.kaminski@enron.com](mailto:j.kaminski@enron.com)

|  |  |
| --- | --- |
| Date | Self CC’d Emails |
| Jan |  |
| Feb |  |
| - |  |
| - |  |
| - |  |
| - |  |
| Dec |  |

[jeff.dasovich@enron.com](mailto:jeff.dasovich@enron.com)

|  |  |
| --- | --- |
| Date | Self CC’d Emails |
| Jan |  |
| Feb |  |
| - |  |
| - |  |
| - |  |
| - |  |
| Dec |  |

[kay.mann@enron.com](mailto:kay.mann@enron.com)

|  |  |
| --- | --- |
| Date | Self CC’d Emails |
| Jan |  |
| Feb |  |
| - |  |
| - |  |
| - |  |
| - |  |
| Dec |  |