**Business proposal By Dzmitry Shautsou**

**Overview**

* **Business Background**

Lag.Net is the fast expanding internet provider. Which provide fast internet by different channels like mobile or fiber. Lag.Net provides internet access. Company has some offices in some countries. Also Lag.Net has a lot of clients in different countries , it’s clients is a person users and organization as well.

Company works in conditions of hard competition. Then it has to improve business process and service quality.

So Lag.Net needs system to watch clients traffic and payments. System should consider location, service office, providing channel. Also system should provide to clients information about their spending and tariffs by web-based interface.

Lag.Net –internet without any lag!

* **Benefits**

Lag.Net needs BI solution system for accurate and deep analysis trends, services sale, hardware using. Main task trace clients spending traffic and money.

System should provide managers and employees easy search and access to data about clients, offices, servers and e.t.c.

CEO can test his iPad on the interactive BI report.

**Requirements**

* **Business Requirements**

Lag.Net has some business requirements for the solution.

* Simple and fast search of spending money and traffic.
* Company has a lot of clients. It stores information about their tariff plan, amount of consumed services and amount of payments.
* Lag.Net has some offices in different countries. Every office has its own geographical location. Warehouse must consider this fact.
* View hardware load and features.
* Storing and editing tariff plans.
* Divide information by provided internet channels.
* **Technical Requirements**

Solution has some important technical requirements.

* High reliability
* Working 24\*7
* Implement localization
* System should be compatible with https data sending
* Time granularity – day
* Statistic must be calculated monthly for each office
* Statistic period last year

**Solution Sketch**

* **Source table structure**

Times

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Comment |
| DAY\_NUM | NUMBER | Table filled daily based on the system date |
| DAY\_DESC | VARCHAR(10) |  |
| WEEK\_NUM | NUMBER |  |
| MONTH\_NUM | NUMBER |  |
| MONTH\_DESC | VARCHAR(10) |  |
| QUAR\_NUM | NUMBER |  |
| YEAR\_NUM | NUMBER |  |

Clients

Info stored in local OLTP systems, tables have same format

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Comment |
| First Name | NUMBER | Basic info about client gained by the |
| Last Name | VARCHAR(10) | contract conclusion |
| Address | VARCHAR(250) |  |
| Age | NUMBER |  |
| Gender | VARCHAR(10) |  |

Server Info

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Comment |
| Channel Desc | VARCHAR(10) | selfcommenting |
| CPU MHZ | NUMBER |  |
| CPU MHZ | NUMBER |  |
| RAM | NUMBER |  |

Offices

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Comment |
| Country | VARCHAR(25) | Fields is selfcommenting |
| City | VARCHAR(25) |  |
| Address | VARCHAR(250) |  |
| Employee Count | NUMBER |  |
| Description | VARCHAR(1000) |  |

Tariffs

|  |  |  |
| --- | --- | --- |
| Name | Data Type | Comment |
| TARIFF\_ID | NUMBER | TARIFF\_ID |
| TARIFF\_DESC | VARCHAR(25) | TARIFF\_DESC |
| IN\_COST | NUMBER | IN\_COST |
| OUT\_COST | NUMBER | OUT\_COST |
| FEE | NUMBER | FEE |
|  |  |  |

* **Summarized Data Plan**



* **STAR**

**PHYSICAL MODEL**

