

*KORYTKO Ineternet CASINO*

solution Concept Document

Version number 1.0

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| **Submission Date** | *03/25/2012* |
| **Requested By** | *Kyril Bulcha* |
| **Business Owner** | *Alexander Korytko* |
| **Contact Info.** | *Alexander\_Korytko@epam.com* |

**Date warehouse system data model:**

1**. Select the data of interest:**

- Users

- Operations

- Operations activity - Calculate Sum by month, by quarter

- Transaction

- Transactions activity - Transactions occur over time

2**. Add Time to the Key**

- Month

- Quarter

3. **Add Derived Data**

- Users

- Currency

- Times

- Locations

- Transactions

- Operations

4. **Deermine Granularity Level**

- Times: days, month, quarter (MIN value DAY)

- Locations: Region, SubRegion, Country (min value Country)

- Transactions: Deposit, Withdrawal

- Currency: Convertable or not convertable type

- Transactions: Deposit, Withdrawal

- Operations: methos of operations (Debit Card, Bank transfer, Check, Webmoney)

**5. Summarize Date:**

- SUM DEPOSIT at the end of day by each country

- SUM WITHDRAWAL at the end of day by each country

- Count of Opearations by each method and country at the end of the day

**6. Merge entites**

- Merge Operation\_Types Table and Operation\_Methods into one Opearations table

- Merge Country, Subregion and Region into one Locations table

- Merge Times\_Month and Times\_Quarter tables into one Times table

**7. Create array**

- Opearation: MIN\_Amount and Max\_Amount to Deposit and Withdrawal for each Opearation type (10..100, 100..1000, 1000..10000)

- User Gender: 1 - Male, 2 - Female

**8. Segregate data:**

- Users - user\_ID, User\_person\_information

- Times - Times\_ID, Day, Month, Quarter, Year

- Locations - Locations\_ID, Region, SubRegion, Country

- Currency - Currency\_ID, Currency\_details

- Operations - Operations\_ID, Operation\_Details

- Transactions - Transaction\_ID, User\_ID, Times\_ID, Location\_ID, Currency\_ID, Operation\_ID

# Overview

## Business Background

# KORYTKO Internet CASINO provides a selection of the world’s favorite games which can be downloaded for free and play for fun or for real money. KORYTKO Internet CASINO utilizes a certified and audited Random Number Generator (RNG) to ensure consistently random results. This system, an online gaming industry standard, has been extensively tested by running and analyzing millions of dice rolls, shuffles and spins. KORYTKO Internet CASINO using industry standard security protocols (128 bit, SSL data encryption technology) to ensure that all transactions including deposits and withdrawals are carried out in a totally secure manner. This casino has 24/7 Customer Support

# *RUS VER:*

# Для данного интернет казино необходимо постоянно иметь полную статистику по странам о суммарной величине снятия и пополнения денег на счёт пользователями по месяцам за последние 12 месяцев. Кроме того, для каждой страны, необходимо проанализировать по одному самому распространённому способу пополнения и снятия денег пользователями со своего счёта.

# *ENG VER:*

KORYTKO Internet CASINO should always have complete statistics by countries of the total value of deposit and withdrawal money to the users account monthly over the past 12 months. In addition, for each country should be analyzed one the most popular method of depositing and withdrawing money from user account.

## Benefit

# RUS:

# При помощи собранной статистики по странам можно очень легко определить страны, которые больше всех приносят прибыль данному казино, а так же самые часто используемые способы снятия и пополнения денег пользователями со счетов в этих странах в зависимости от региона. Статистика по каждому месяцу позволяет очень точно определить прибыльность предприятия за последний год и поможет спрогнозировать доход в следующем году по каждому из 12 месяцев.

# ENG:

# With this our statistics collected by countries can be very easy to identify the most profitable countries for KORYTKO Internet CASINO, plus the most frequently used methods of deposit and withdrawal money from the user accounts by countries, depending on the region. Statistics for each month allows you to very accurately determine the profitability of the company over the last year and will help to predict next year's income in each of 12 months.

# Requirements

## Business Requirements

# Monthly calculated amount of total Deposits by country;

# Monthly calculated amount of total Withdrawal by country;

# Top used methods of deposit money to user account for each country;

# Top used methods of withdrawal money from user account for each country;

## Technical Requirements

# Statistic should be calculated monthly for each country;

# Statistic period - last 12 month;

# High availability/reliability;

# User information should consist gender information;

# Should be possible to see statistic by month and quarter;

# Should be possible to see statistic by country, region and subregion;

# Solution Sketch

## Source Tables structure

### *DIM\_USERS*

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Comment** |
| **USER\_CODE** | NUMBER (32) | User unique code |
| **FIRST\_NAME** | VARCHAR2 (32) | User First Name |
| **LAST\_NAME** | VARCHAR2 (32) | User Last Name |
| **GENDER** | VARCHAR2 (5) | User Gender (M/F) |
| **YEAR\_OF\_BIRTH** | NUMBER (10) | Users date of birth |
| **COUNTRY** | NUMBER (32) | User country code |
| **BALANCE** | NUMBER (32) | Users current money balance |

### *DIM\_TIMES*

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Comment** |
| **TIMES\_CODE** | NUMBER (32) | Time unique code |
| **DATE** | DATE | Day number in month |
| **MONTH** | NUMBER (5) | Month number |
| **MONTH\_DESCRIPTION** | VARCHAR2 (10) | Name of month |
| **QUARTER** | NUMBER (5) | Quarter number (1/2/3/4) |
| **QUARTER\_DESCRIPTION** | VARCHAR2 (5) | Quarter description (first, second, third, fourth) |
| **YEAR** | NUMBER (32) | Year number |
|  |  |  |

### *DIM\_CURRENCY*

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Comment** |
| **CURRENCY\_CODE** | NUMBER (32) | Currency unique code |
| **CURRENCY\_DESCRIPTION** | VARCHAR2 (32) | Currency name (dollar, pound, rubl and etc.) |
| **CURRENCY\_CONVERT\_TYPE** | NUMBER (5) | Convertible currency type or not (YES/NO) |

### *DIM\_OPERATIONS*

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Comment** |
| **OPERATION\_CODE** | NUMBER (32) | Operation unique code |
| **OPERATION\_DESCRIPTION** | VARCHAR2 (32) | Operation name (DEPOSIT / WITHDRAWAL) |
| **DATE** | DATE | Date of operation |
| **METHOD\_DESCRIPTION** | VARCHAR2 (5) | Name of method (Credit Cards, Direct Deposit, Check, Emoney) |

### *DIM\_LOCATIONS*

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Comment** |
| **COUNTRY\_CODE** | NUMBER (32) | Country unique code |
| **COUNTRY\_DESCRIPTION** | VARCHAR2 (32) | Country Name |
| **COUNTRY\_SHORT\_DESC** | VARCHAR2 (5) | Country abbreviation |
| **SUBREGION** | VARCHAR2 (32) | Subregion Name |
| **SUBREGION\_CODE** | NUMBER (32) | Subregion code |
| **REGION** | VARCHAR2 (32) | Region name |
| **REGION\_CODE** | NUMBER (32) | Region code |

### *FCT\_TRANSACTIONS*

|  |  |  |
| --- | --- | --- |
| **Name** | **Data Type** | **Comment** |
| **TIMES\_CODE** | NUMBER (32) | Time unique code |
| **CURRENCY\_CODE** | NUMBER (32) | Currency code |
| **TRANSACTION\_CODE** | NUMBER (32) | Transaction code |
| **OPERATION\_CODE** | NUMBER (32) | Operation code |
| **USER\_CODE** | NUMBER (32) | User code |
| **COUNTRY\_CODE** | NUMBER (32) | Country code |
| **AMOUNT** | NUMBER (32) | Amount of transaction |

## Summarize Data Plan

