Business Requirements Document Bluebox DVDs

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Version	Date	Author	Description
1	03-21-2023	Rahul Tiwari	Initial version for DVD Rental database for Blue Box DVDs

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1 Introduction

Bluebox DVDs expanding their business and wanted to create the data warehouse so that they can keep track of the information and take some better and quick decisions. The task is to create the entire data warehouse and reporting solution for the business. There are different files where business is storing all the information. We need to move the data to MySQL.

Source Data Model
Refer the table structure in the PDF given.

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2 Source data

As of now business is storing all the data in the text files and have total 16 files in which they have all the dataset. Below are the file names and the information about what type of data is stored in those tables.

SRNO	File Name	Data details
1	actor.csv	All the actors related information
2	country.csv	All the countries related information
3	address.csv	All the address related information
4	category.csv	All the category related information
5	film.csv	All the films related information
6	city.csv	All the city related information
7	film_category.csv	All the films and categories mapping related information
8	customer.csv	All the customers related information
9	film_actor.csv	All the films and actors mapping related information
10	language.csv	All the language related information
11	store.csv	All the store related information
12	inventory.csv	All the inventory related information
13	payment.csv	All the payment related information
14	film_text.csv	All the film text related information
15	rental.csv	All the rental related information
16	staff.csv	All the staff related information

3 Business Logic

Remove Last Update date column from all the tables

Actor Table:

- Concatenate the first name and the last name of the actors

Address Table:

- Remove the address 2 column
- Postal code make it zero if null
- Phone number make it 0000000000 if null

Customer Table:

Concatenate first name and the last name of the customer
Replace the domain of the email from sakilacustomer.org to blueboxdvd.com
Remove create and last update columns

Film Table:

Remove original language id column
Convert the rating as below

Original Rating	Updated Rating
G	General Audience
PG	Parental Guidance
PG-13	Parents Strongly Cautioned
R	Restricted
NC-17	Adults only

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Submission

- Detailed architecture diagram
- All the .sql file and .tfl file
- Create the end to end stored procedure and also create one wrapper stored procedure which will run all the stored procedure, share the .sql files of all those stored procedures.
- Create the Audit control as well the table structure of the audit control should be as below

OP_ID	SOURCE_NAME	TARGET_NAME	PROCESS_NAME	OPERATION_TYPE	SOURCE_COUNT	TARGET_COUNT	LOG_DETAILS	OPERATED_BY	OPERATION_DATE

- Create at least 2 transformation layers
- Create the Tableau Dashboard which will give the entire 360 degree view of the customer and rental

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