Low Level Design

For

Database

INDUSTRY ANALYSIS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
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Table of Contents

1. Introduction……………………………..…………………….……………….. 1
2. Target Dimension Tables ………………………..…………………………… 1
3. Dim\_Industry…………………………………………..………………… 1
4. Dim\_Company ………………………………………………...………… 1
5. Dim\_Designation………………………….……………………………. 2
6. Dim\_Experience……………………………...………………………… 2
7. Dim\_Time…………………………...…………………………………. 2

III Target Table

1. Fact\_Avg\_Sal……………………….………………………………... 4
2. Fact\_Industry\_Analysis………………………………………………..4-5
3. Introduction

A Teradata database is a collection of data treated as a unit. The purpose of a database is to store and retrieve related information. A database server is the key to solving the problems of information management. In general, a server reliably manages a large amount of data in a multi-user environment so that many users can concurrently access the same data. All this accomplished while delivering high performance. A database server also prevents unauthorized access and provides efficient solution for failure recovery.

1. Source Dimension Tables
2. Industry: This dimension table contains information about the various industries.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Size |
| Industry\_ID [PK] | Number | 15 |
| Industry\_Name | Varchar | 25 |

* Industry\_ID: This is the unique id given to each industry.
* Industry\_Name: This gives the name of specific industry.

1. Company: This dimension table gives the information about the different companies.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Size |
| Company\_ID [PK] | Number | 15 |
| Company\_Name | Varchar | 25 |
| Country | Varchar | 25 |
| City | Varchar | 25 |
| Zipcode | Number | 15 |
| Industry\_ID | Number | 15 |

* Company\_ID: This is the unique ID given to each company.
* Company\_Name: This gives the names of different companies.
* Country: This gives the information about the country where the company is located.
* City: This gives the information about the city where the company is located.
* Zipcode: This gives the information about the zipcode of the area where the company is located.
* Industry\_ID: This is the unique ID of each industry to which the company is related.

1. Designation: This dimension table gives the information about the Designation.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Size |
| Designation\_ID [PK] | Number | 15 |
| Designation\_Name | Varchar2 | 25 |
| Industry\_ID | Number | 15 |

* Designation\_ID: This is the unique ID given to each designation.
* Designation\_Name: This column gives the name of Designations.
* Industry\_ID: This is the unique ID of each industry to which the designation is related.

1. Experience: This gives the Experience details of the employees.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Size |
| Experience\_ID [PK] | Number | 15 |
| Experience In Years | Varchar2 | 25 |

* Experience\_ID: This is the unique ID given to each range of experience.
* Experience In Years: This gives the details about the range of experience.

1. Time: This dimension gives the information about the duration of the course.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Size |
| Date\_Time\_Stamp\_ID [PK] | Number | 15 |
| Year | Varchar2 | 25 |
| Quarter | Varchar2 | 25 |
| Month | Number | 15 |
| Day of\_Week | Number | 15 |
| Date | Varchar2 | 25 |

* Date\_Time\_Stamp\_ID: This is the unique id given to each time zone.
* Year: This gives the Year of data into consideration.
* Quarter: This gives the Quarter of the year in consideration.
* Month: This gives the month name.
* Day\_of\_week: This gives the information about the week of data into consideration.
* Date: Date of consideration.

**Target Fact Table**

1. Fact\_Avg\_Sal:

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Size |
| Fact\_ID [PK] | Number | 15 |
| Company\_ID [FK] | Number | 15 |
| Designation\_ID [FK] | Number | 15 |
| Experience\_ID [FK] | Number | 15 |
| Date\_Time\_Stamp\_ID [FK] | Number | 15 |
| No\_Of\_Emp | Number | 15 |
| Avg\_Salary(in Lacs) | Number | 15 |

* Fact\_ID: This is the unique ID given to each element of fact table.
* Company\_ID: This is the ID given to respective companies.
* Designation\_ID: This is the unique ID given to each designation.
* Experience\_ID: This is the unique ID given to each range of experiences.
* Date\_Time\_Stamp\_ID: This is the unique ID given to each time zone.
* No\_Of\_Emp: This is the number of employees at particular designation in an company.
* Avg\_Salarry(in Lacs): This gives the information of the average salary of employees at particular designation in an company.

2. Fact\_Industry\_Analysis:

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Size |
| Fact\_ID [PK] | Number | 15 |
| Industry\_ID [FK] | Number | 15 |
| Company\_ID [FK] | Number | 15 |
| Date\_Time\_Stamp\_ID [FK] | Number | 15 |
| Market\_Capital(in Million) | Number | 15 |
| P/E | Number | 15 |

* Fact\_ID: This is the unique ID given to each element of fact table.
* Industry\_ID: This is the unique id given to each industry.
* Company\_ID: This is the unique ID given to each company.
* Date\_Time\_Stamp\_ID: This is the unique id given to each time zone.
* Market\_capital(in Millions): Market capital of the respective industries.
* P/E: The price/earnings ratio (often shortened to the **P**/**E**ratio or the PER) is the ratio of a company's stock price to the company's earnings per share