# DMHP PROJECT REPORT

Mani Nandadeep IMT2019051 R Prasannavenkatesh IMT2019063

Vijay Jaisankar IMT2019525 M Dhanush IMT2019049

# **CONTENTS**

1	Stor	ed Procedures	2
	1.1	getTraining	3
	1.2	getMnsAlloAction	4
	1.3	getHRData	5
	1.4	getDistrictManasadhara	6
	1.5	getDistrictExpense	7
2	Para	meters	8

#### STORED PROCEDURES 1

A Stored Procedure is a set of SQL statements with an assigned names, so that it can be shared with multiple applications and can generate dynamic queries as compared to a static query.

It is abstracted from the regular code and just called in the API, similar to a function call and returns a cut of the database which are filtered according to the call arguments.

Stored Procedure for the tbl\_training, tbl\_districtexpense, tbl\_hrdatainfo, tbl\_districtmanasadhara and tbl\_mnsalloaction tables have been implemented in this project.

Now, rather than creating many API routes, a single API route will suffice for both training and district expense Data modules. Also this makes the graphing process simpler.

Here is a list of all the stored procedures implemented, their primary functionalities and their argument lists:

### 1.1 getTraining

This stored procedure generates a dynamic cut of the tbl\_training table.

It filters the output based on the following parameters:

- Select a predefined list of columns.
- Group the output by a predefined list of columns.
- Filter by District, Facility, Event, Targeted Group, and Resource IDs.
- Reject all entries lying outside of a given date range.
- Group the output annually, monthly, or quarterly.
- Group the output by calendar year or financial year.

- display
- group\_by
- district\_list
- facility\_list
- event\_list
- target\_group\_list
- resource\_list
- start\_date
- end\_date
- timeperiod\_type
- year\_type

# 1.2 getMnsAlloAction

This stored procedure generates a dynamic cut of the tbl\_mnsalloaction table.

It filters the output based on the following parameters:

- Select a predefined list of columns.
- Group the output by a predefined list of columns.
- Filter by District, Financial Year, and Quarter IDs.
- Select arithmetic operations performed on a select list of columns.

- display
- group\_by
- agg
- district\_list
- quarterly\_list
- financial\_year

# 1.3 getHRData

This stored procedure generates the rolling sum of active and contracted workers extracted from the tbl\_hrdatainfo table.

It filters the output based on the following parameters:

- Group the output by a predefined list of columns.
- Filter by District and Taluka IDs.
- Reject all entries lying outside of a given date range.

- district\_list
- taluka\_list
- start\_date
- end\_date

### 1.4 getDistrictManasadhara

This stored procedure generates a dynamic cut of the tbl\_districtmanasadhara table.

It filters the output based on the following parameters:

- Select a predefined list of columns.
- Group the output by a predefined list of columns.
- Filter by District and Status IDs.
- Reject all entries lying outside of a given date range.
- Select arithmetic operations performed on a select list of columns.
- Group the output annually, monthly, or quarterly.
- Group the output by calendar year or financial year.

- display
- group\_by
- agg
- district\_list
- status\_list
- start\_date
- end\_date
- timeperiod\_type
- year\_type

## 1.5 getDistrictExpense

This stored procedure generates a dynamic cut of the tbl\_districtexpense table.

It filters the output based on the following parameters:

- Select a predefined list of columns.
- Group the output by a predefined list of columns.
- Filter by District and Status IDs.
- Reject all entries lying outside of a given date range.
- Select arithmetic operations performed on a select list of columns.
- Group the output annually, monthly, or quarterly.
- Group the output by calendar year or financial year.

- display
- group\_by
- agg
- district\_list
- status\_list
- start\_date
- end\_date
- timeperiod\_type
- year\_type

# 2 PARAMETERS

display	This column specifies the list of columns that will be included in the query
group_by	The resulting columns will be grouped by these values
agg	This column specifies what will be included in the aggregation query
district_list	The output will contain values with DistrictIDs present in this list
start_date	This column specifies the starting point of date filtration
end_date	This column specifies the culmminating point of date filtration
timeperiod_type	This specifies whether the query is ordered monthly, quarterly, or yearly
year_type	Specifies what type of output is generated - financial year or calendar year
status_list	The output will contain values with StatusIDs present in this list
taluka_list	The output will contain values with TalukaIDs present in this list
quaterly_list	The output will contain values with DistrictIDs present in this list
financial_year	This is a date proxy for the getMNSAlloAction stored procedure
facility_list	The output will contain values with FacilityTypeId present in this list
event_list	The output will contain values with EventIDs present in this list
target_group <sub>l</sub> ist	The output will contain values with TargetGroupIDs present in this list
resource_list	The output will contain values with ResourceIDs present in this list
	<u> </u>