



# DATA WAREHOUSING HACKATHON DOUMENTATION

Prepared by:  
**SS SOLUTION BUILDERS**  
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Submitted to:  
**Ingage Technologies Pvt Ltd Company**  
**Chennai**

# ACADEMIC PERFORMANCE OF STAFF WITH REFERENCE TO STUDENTS' SUCCESS

**Note!** Since we extract the data from power bi itself, for the problem Statements without using snowflake queries to extract data from tables. we just create warehouse, database, schema, tables in snowflake, after that we connected snowflake server with power bi.

## Problem Statement:

1. Find the best Class Advisor in a specific department in a year.
2. Find or compare performance of two different staffs in an academic (all the four years)
3. Find the best Class Advisor overall college in a year.
4. Find specific staff performance with age in a year.
5. Find performance of staff between student performed in odd semester and even semester in department in a year.
6. Find the best performing Department of the
7. Find or compare the performance of two different departments in a year.
8. Find overall performance of college in a year.
9. Find or compare performance of college present year with previous year.

10. Find growth of college in Academic (all the four years).
11. Find salary and attendance of staffs in academic year.

## Table contains:

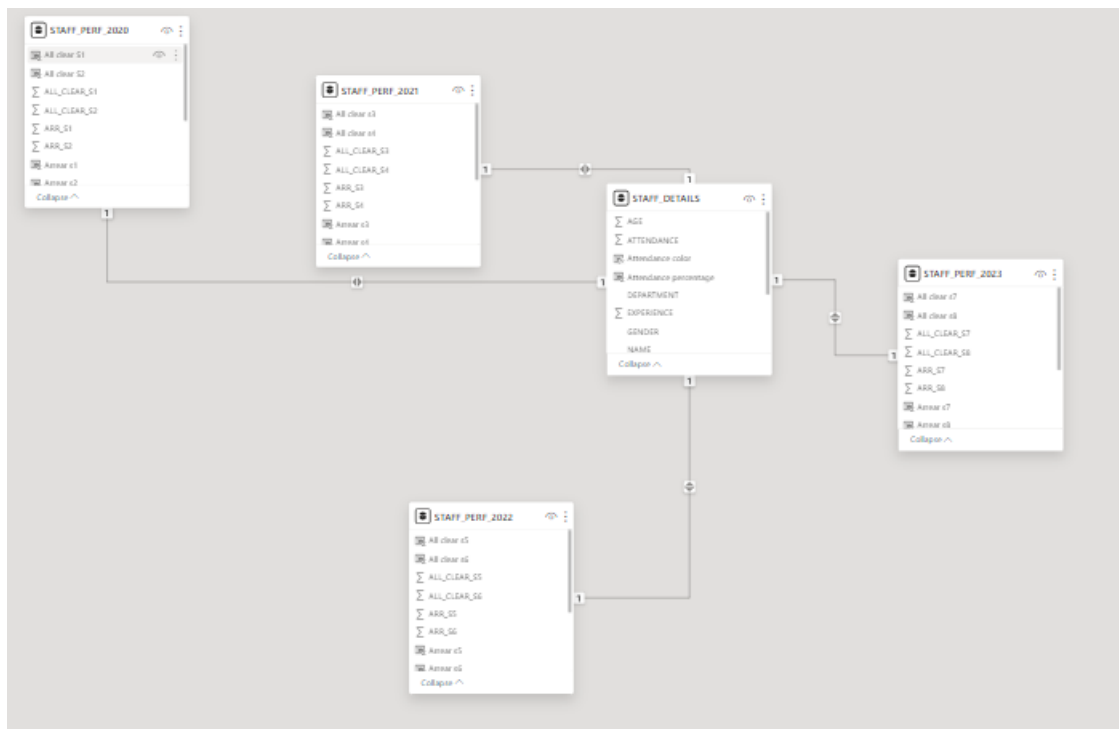
Staff\_details

Staff\_perf\_2020

Staff\_perf\_2021

Staff\_perf\_2022

## Start schema table relationship:



# Creation of Warehouse ,Database,Schema and Table in snowflake:

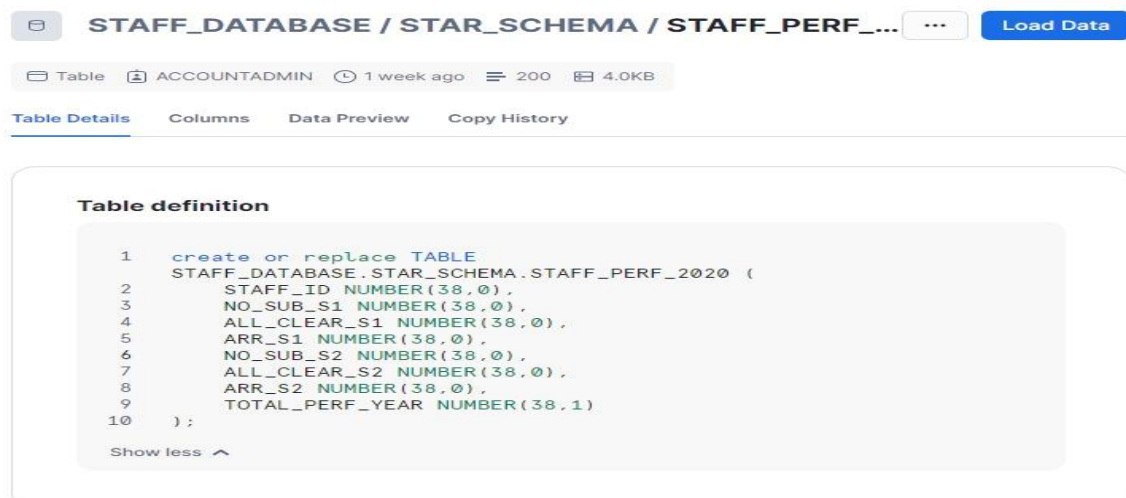
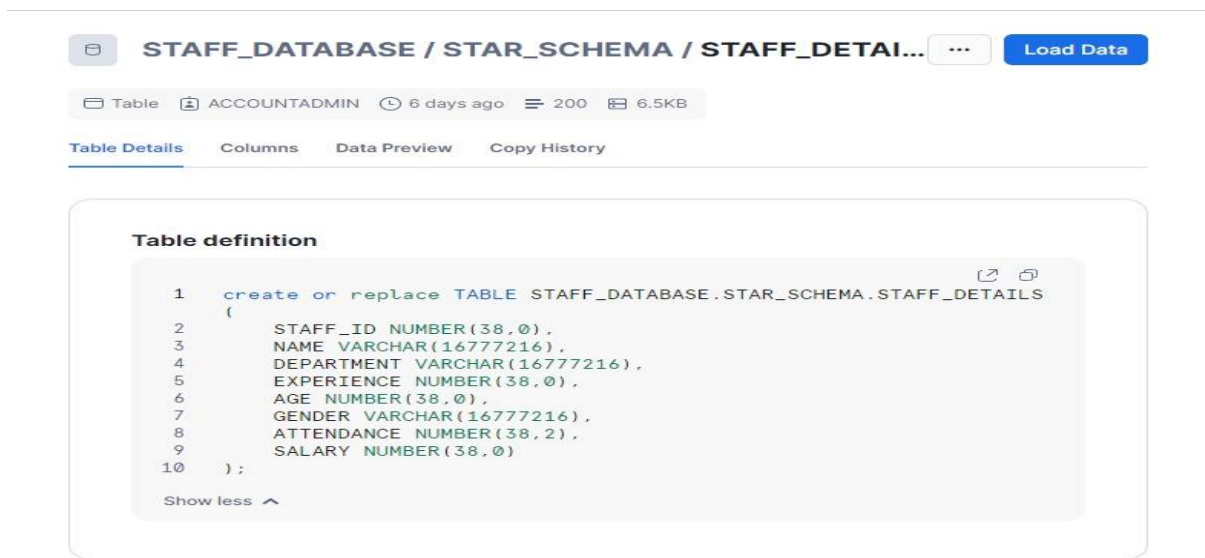
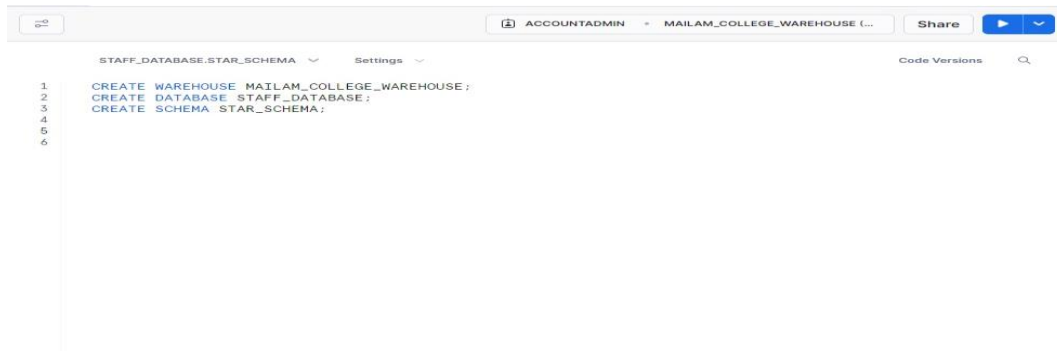


Table definition

```
1 create or replace TABLE
2 STAFF_DATABASE.STAR_SCHEMA.STAFF_PERF_2021 (
3     STAFF_ID NUMBER(38,0),
4     NO_SUB_S3 NUMBER(38,0),
5     ALL_CLEAR_S3 NUMBER(38,0),
6     ARR_S3 NUMBER(38,0),
7     NO_SUB_S4 NUMBER(38,0),
8     ALL_CLEAR_S4 NUMBER(38,0),
9     ARR_S4 NUMBER(38,0),
10    TOTAL_PERF_YEAR NUMBER(38,2)
11 );
```

Show less ^

Table definition

```
1 create or replace TABLE
2 STAFF_DATABASE.STAR_SCHEMA.STAFF_PERF_2022 (
3     STAFF_ID NUMBER(38,0),
4     NO_SUB_S5 NUMBER(38,0),
5     ALL_CLEAR_S5 NUMBER(38,0),
6     ARR_S5 NUMBER(38,0),
7     NO_SUB_S6 NUMBER(38,0),
8     ALL_CLEAR_S6 NUMBER(38,0),
9     ARR_S6 NUMBER(38,0),
10    TOTAL_PERF_YEAR NUMBER(38,1)
11 );
```

Show less ^

### Table definition

```

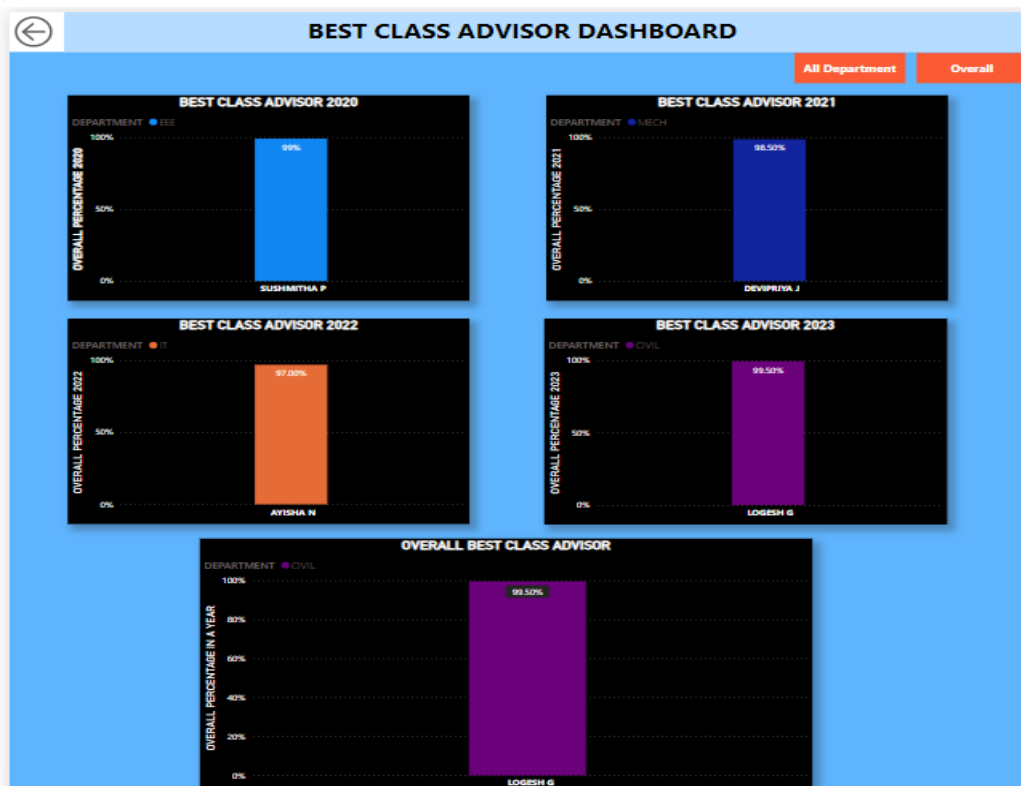
1  create or replace TABLE
2  STAFF_DATABASE.STAR_SCHEMA.STAFF_PERF_2023 (
3      STAFF_ID NUMBER(38,0),
4      NO_SUB_S7 NUMBER(38,0),
5      ALL_CLEAR_S7 NUMBER(38,0),
6      ARR_S7 NUMBER(38,0),
7      NO_SUB_S8 NUMBER(38,0),
8      ALL_CLEAR_S8 NUMBER(38,0),
9      ARR_S8 NUMBER(38,0),
10     TOTAL_PERF_YEAR NUMBER(38,1)

```

Show less ^

## Problem statement:

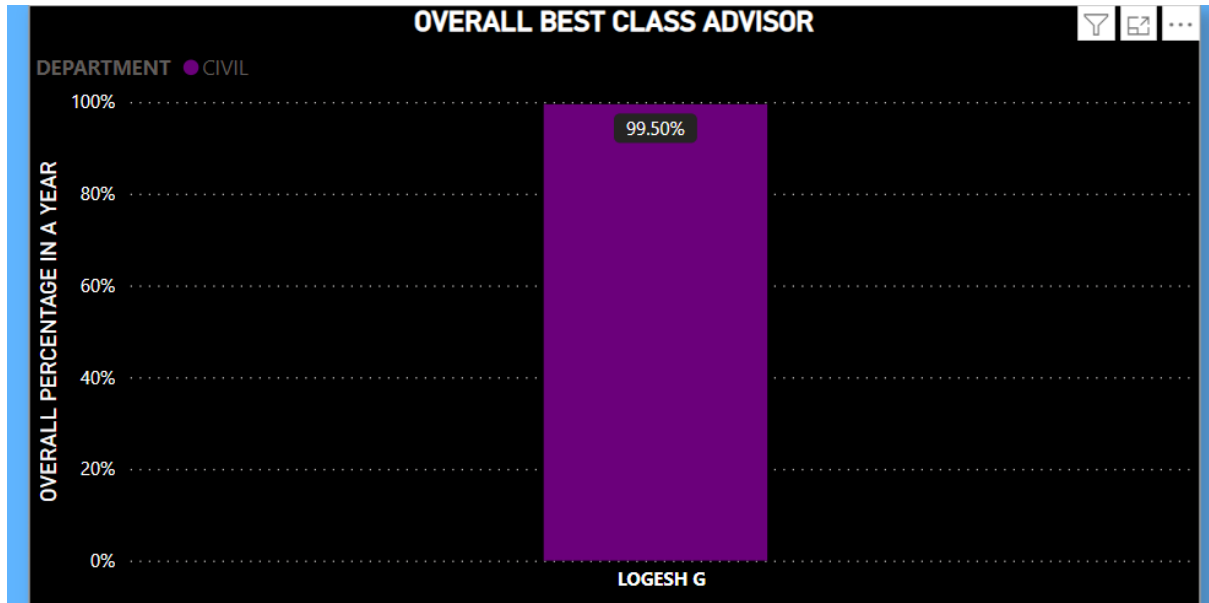
1.Find the best Class Advisor in a specific department in a year.



2.Find or compare performance of two different staffs in an academic (all the four years)



3.Find the best Class Advisor overall college in a year.

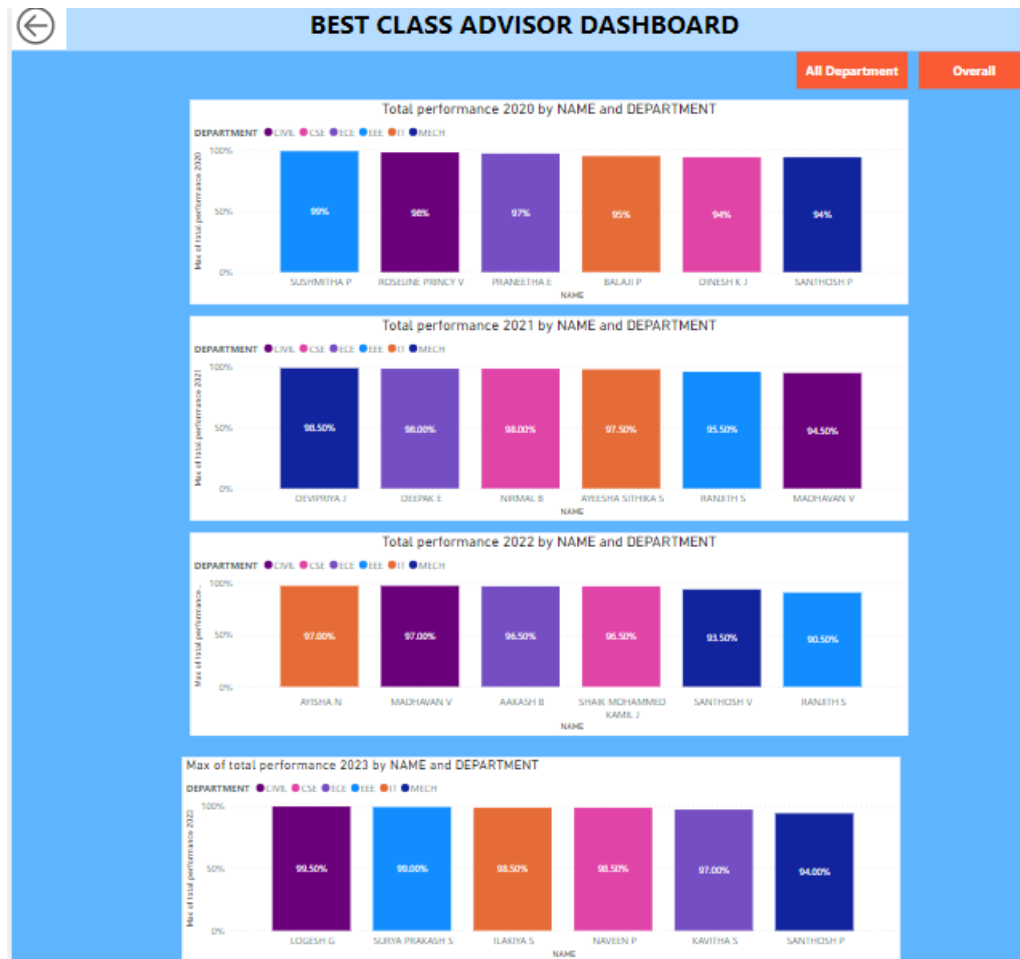




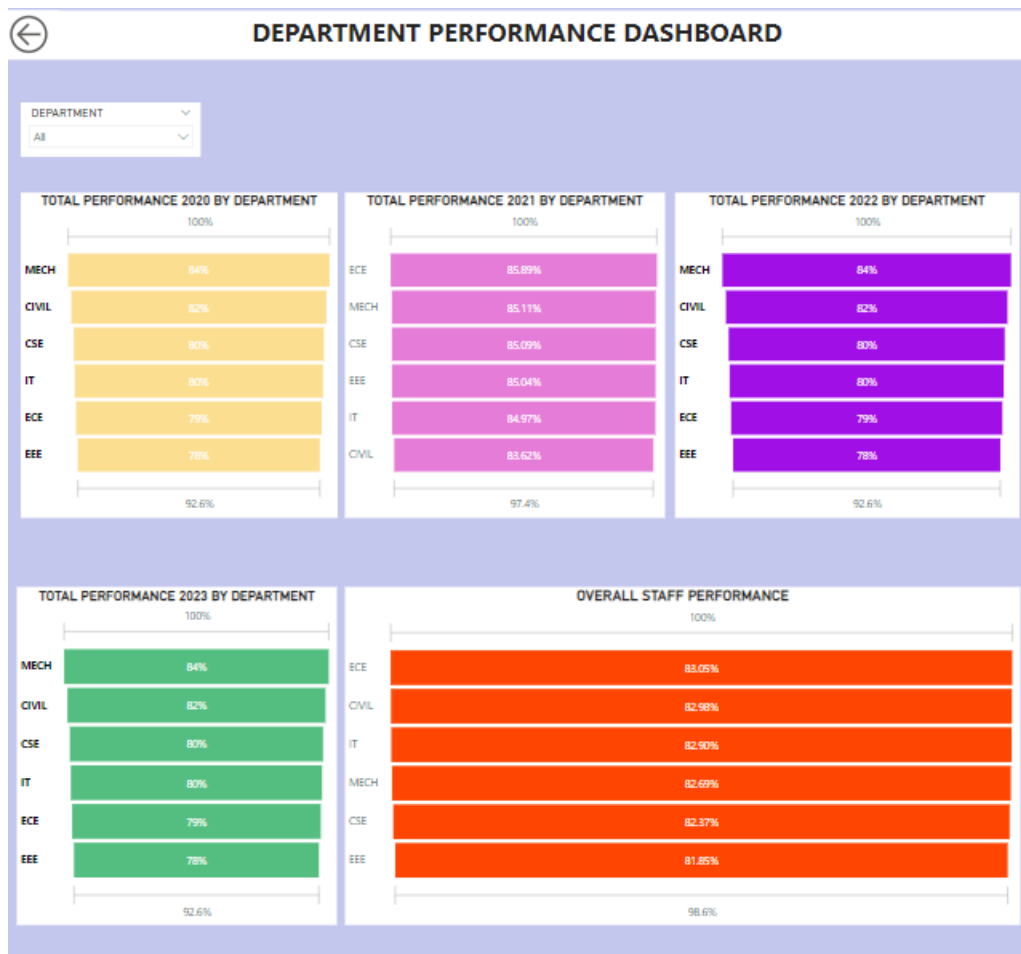
4. Find specific staff performance with age in a year.



5. Find performance of staff between student performed in odd semester and even semester in department in a year.



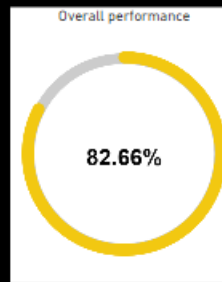
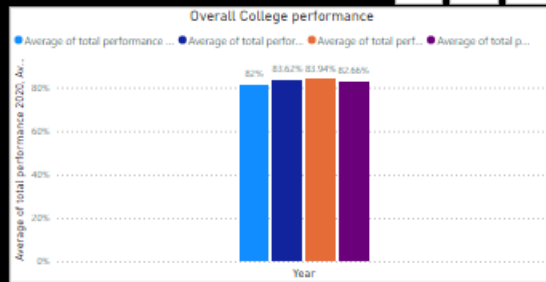
6.Find the best performing Department of the year.



7.Find or compare the performance of two different departments in a year.

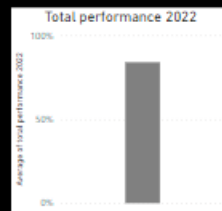


## COLLEGE PERFORMANCE

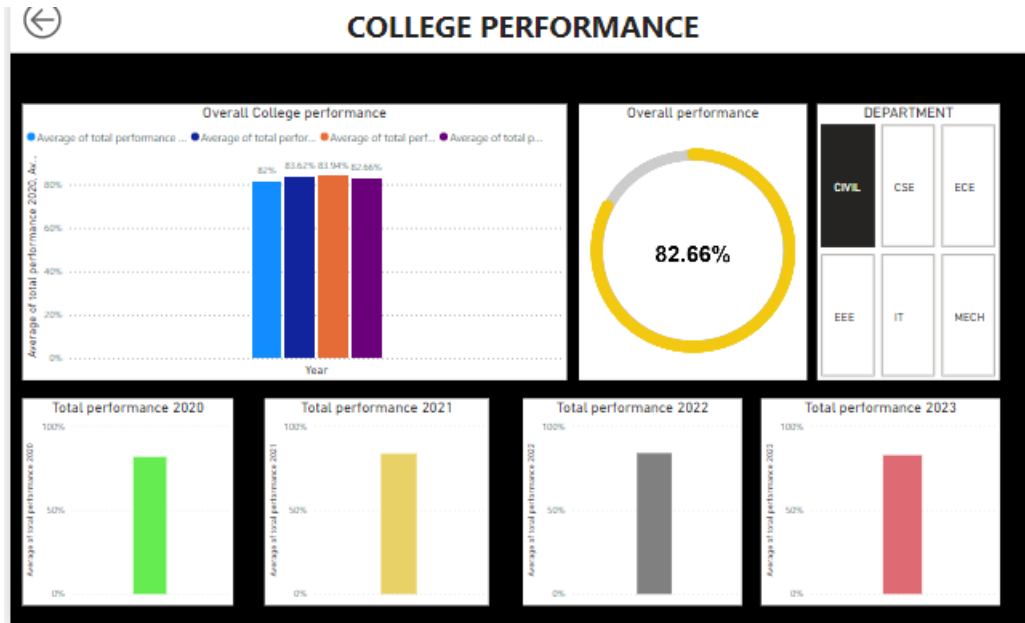


DEPARTMENT

CIVIL	CSE	ECE
EEE	IT	MECH



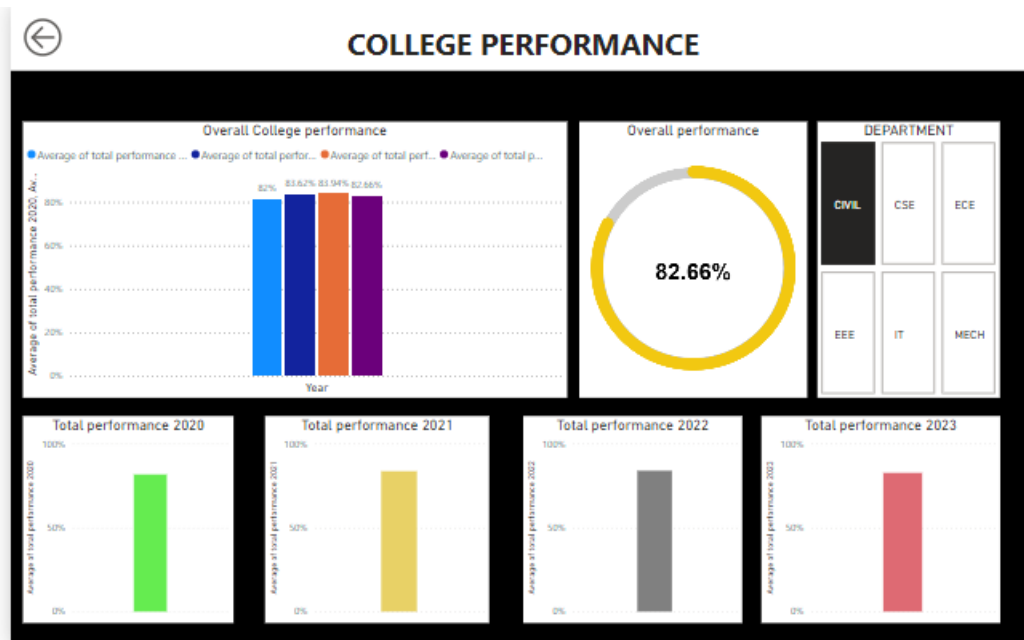
8.Find overall performance of college in a year.



9. Find or compare performance of college present year with previous year.



10.Find growth of college in Academic (all the four years).



## 11. Find salary and attendance of staffs in academic year.

