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Roll no :- 19

# Experiment No :- 01

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Experiment No.-01                    Date :

**Title :-** Implementation of star schema.

**Problem statement :-** The university wants to design star schema to record grade for course completed by the student. There are four dimensional table namely course section, student, professor, lecture with the attributes as follows.

Course section = Course.id ,sec No, course name, units ,room id, Room capacity ,pro

professor = prof id, prof name ,Dept id ,Dept name
student = stud id, prof name ,Dept id, Dept name
lecture = sem id, year ,class

**Theory & Concept :-**

Multidimensional schema is especially designed to model data warehouse system, the schema are designed to address the unique need of very large database designed for the analytical purpose (OLAP).

- Star schemas
- snowflake schema
- Galary schema

**Star schema :-**

- Each dimension in a star schema is represented with only one-dimension table.
- The dimension table contains the set of attributes
- The diagrams show the sales data of a company with respect to the four dimension namely time, item branch & location.

Campus

Characteristics of SnowFlake Schema

• The main benefits of the snowflake schema it uses
  smaller disk space.

• Due to implement a query performance is reduced.

• **Characteristics of Galary Schema :-**

• The dimension in this schema are seperated into seperate
  dimensions based on the various level hierarchy.

• The dimension table give: Dimensional table which is need
  to build based on level of hierarchy.

• Morever, it is possible to build this type of schema by
  splitting the one star schema into more star schema.

Conclusion :-
                    Hence we studied all schemas in data
warehouse and implemented star schema for above problem.