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| Semester | T.E. Semester V – CMPN |
| Subject | Data Warehousing and Mining |
| Subject Professor In-charge: | Prof. Kavita Shirsat |
| Assisting Techers | Prof. Kavita Shrisat |
| Laboratory | M310 |

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| Grade and  Subject Teacher’s Signature |  |  |

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| Experiment Number | 01 | |
| Experiment Title | Design a Star schema for the e-commerce platform problem statement. | |
| Resources / Apparatus Required | Hardware: Desktop/Laptop | Software: Postgre SQL using PG admin |
| Description | This experiment involves a star schema designed for an e-commerce platform. The design features a central PURCHASE\_FACT table containing key metrics like SALES, DISCOUNTS, and QUANTITY. This fact table is linked to descriptive dimension tables:  Customer, Product, Retailer, P\_Location, and Time, which provide context for the data.  The DDL queries for table creation are:  CREATE TABLE customer (  customer\_id INTEGER PRIMARY KEY,  customer\_name VARCHAR(50),  gender CHAR(1),  age INTEGER  );  CREATE TABLE products (  products\_id INTEGER PRIMARY KEY,  product\_name VARCHAR(100),  category VARCHAR(50),  brand VARCHAR(50),  price NUMERIC(10, 2)  );  CREATE TABLE retailer (  retailer\_id INTEGER PRIMARY KEY,  retailer\_name VARCHAR(100)  );  CREATE TABLE loc (  location\_id INTEGER PRIMARY KEY,  city VARCHAR(50),  states VARCHAR(50),  country VARCHAR(50),  postal\_code VARCHAR(10)  );  CREATE TABLE dim\_time (  time\_id INTEGER PRIMARY KEY,  date DATE,  day INTEGER,  month INTEGER,  year INTEGER,  quarter INTEGER,  day\_name VARCHAR(10),  month\_name VARCHAR(10)  ); | |
| Implementations |  | |
| Conclusion | We successfully designed a star schema to analyze e-commerce purchase data. This model, centered around the PURCHASE\_FACT table and its dimensions, simplifies complex queries and allows for efficient reporting. The design provides a solid foundation for gaining business insights from sales trends. | |