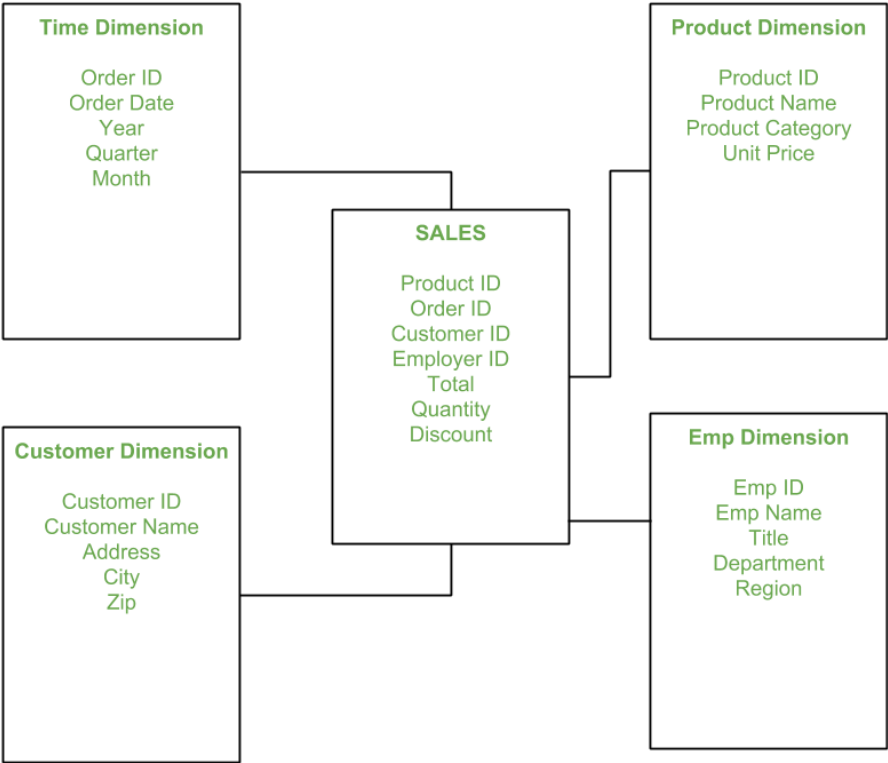


Semester	T.E. Semester VI – Computer Engineering
Subject	Data Warehousing and Mining
Subject Professor In-charge	Prof. Kavita Shirsat
Assisting Teachers	Prof. Kavita Shirsat
Laboratory	M-312B

Student Name	Vibodh Bhosure
Roll Number	20102A0032
Grade and Subject Teacher's Signature	

Experiment Number	09
Experiment Title	Build data warehouse/data mart for a given problem statement i) Identifying the source tables and populating sample data. ii) Design dimensional data module i.e., Star schema, Snowflake schema and Fact Constellation schema (if applicable)
Resources / Apparatus Required	Hardware: Computer system      Software: SQL-PostgreSQL
Description: -	A data warehouse is a central repository of information that can be analyzed to make more informed decisions. Data flows into a data warehouse from transactional systems, relational databases, and other sources, typically on a regular cadence. Business analysts, data engineers, data scientists, and decision makers access the data through business intelligence (BI) tools, SQL clients, and other analytics applications. A data warehouse is a central repository of information that can be analyzed to make more informed decisions. Data flows into a data warehouse from transactional systems, relational databases, and other sources, typically on a regular cadence. Business analysts, data engineers, data scientists, and decision makers access the data through business intelligence (BI) tools, SQL clients, and other analytics applications.

Implementation: -



Query - DataWareHouse on postgres@localhost:5432 \*

File Edit Query Favurites Macros View Help

SQL Editor Graphical Query Builder

Previous queries

```
select c.address,s.customer_id from customer as c inner join sales as s on c.customer_id=s.customer_id
```

Output pane

Data Output Explain Messages History

	address character varying(20)	customer_id integer
1	KHARGHAR	123
2	WADALA	124
3	SION	125

Taskbar: 17 99% ENG 05:46 PM

Query - DataWareHouse on postgres@localhost:5432 \*

File Edit Query Favurites Macros View Help

SQL Editor Graphical Query Builder

Previous queries

```
select e.title, s.emp_id from employee as e inner join sales as s on s.emp_id=e.emp_id
```

Output pane

Data Output Explain Messages History

	title character varying(20)	emp_id integer
1	GM	111
2	AGM	112
3	HEAD	113

ENG 05:53 PM

Query - DataWareHouse on postgres@localhost:5432 \*

File Edit Query Favurites Macros View Help

SQL Editor Graphical Query Builder

Previous queries

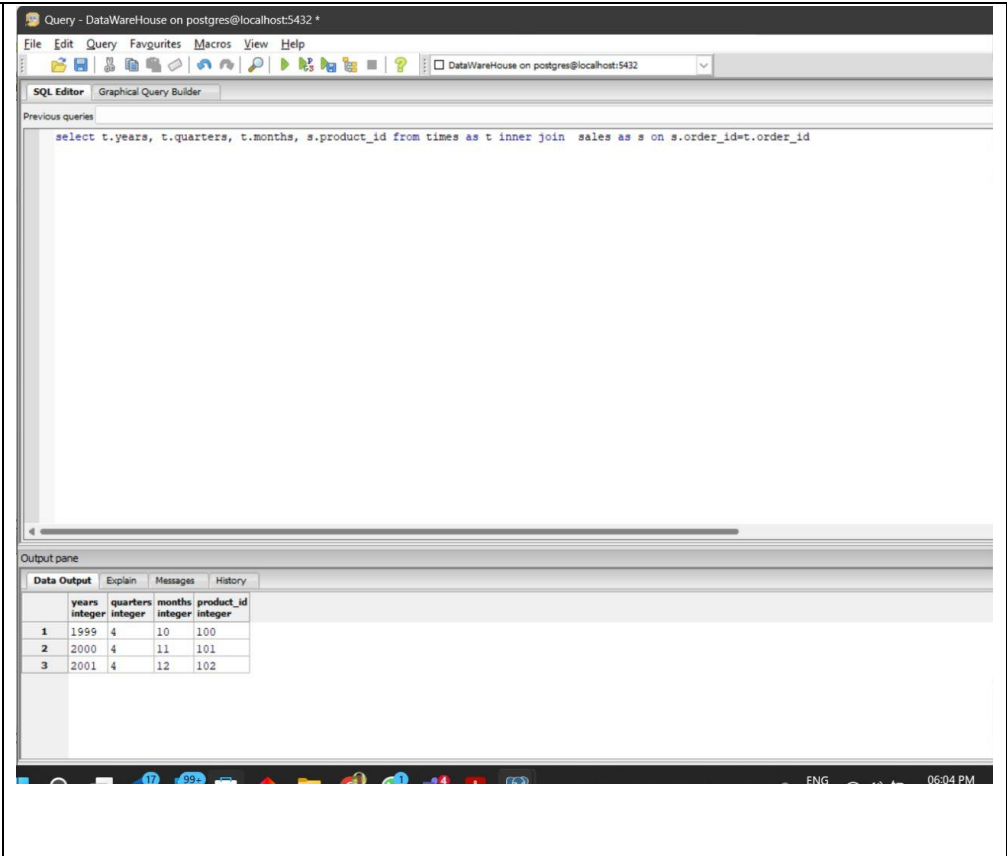
```
select sum(p.unit_price) from sales as s inner join product as p on s.product_id=p.product_id
```

Output pane

Data Output Explain Messages History

	sum bigint
1	4500

ENG 05:59 PM

	 <p>The screenshot shows a PostgreSQL SQL Editor window titled "Query - DataWareHouse on postgres@localhost:5432 *". The window has a menu bar (File, Edit, Query, Favorites, Macros, View, Help) and a toolbar. Below the toolbar, there are tabs for "SQL Editor" and "Graphical Query Builder". The "SQL Editor" tab is active, showing a query in the "Previous queries" section:</p> <pre>select t.years, t.quarters, t.months, s.product_id from times as t inner join sales as s on s.order_id=t.order_id</pre> <p>Below the query editor is the "Output pane" with tabs for "Data Output", "Explain", "Messages", and "History". The "Data Output" tab is active, displaying a table with the following data:</p> <table><tr><th></th><th>years integer</th><th>quarters integer</th><th>months integer</th><th>product_id integer</th></tr><tr><td>1</td><td>1999</td><td>4</td><td>10</td><td>100</td></tr><tr><td>2</td><td>2000</td><td>4</td><td>11</td><td>101</td></tr><tr><td>3</td><td>2001</td><td>4</td><td>12</td><td>102</td></tr></table> <p>The bottom of the window shows a Windows taskbar with various icons and the system clock displaying "06:04 PM".</p>		years integer	quarters integer	months integer	product_id integer	1	1999	4	10	100	2	2000	4	11	101	3	2001	4	12	102
	years integer	quarters integer	months integer	product_id integer																	
1	1999	4	10	100																	
2	2000	4	11	101																	
3	2001	4	12	102																	
Conclusion: -	<p>Here, we have implemented a star schema. The warehouse contains five tables in. Sales table is the fact table, there are four dimension table Time, Production, Employee and Customer. Queries are run on the fact table to obtain data from the dimension table.</p>																				