



Department of Computer Science and Engineering
Data Science



Academic Year: 2024-2025

Semester: 5

Class / Branch: TE

**Subject: DWM** 

Date Of Submission:29-4-24

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**Date Of Performance:29-7-24** 

# **Experiment No. 2**

**Aim:**- Implementation of all dimension tables and fact tables based on experiment 1 case study.

**Output:-**

PARSHWANATH CHARITABLE TRUST'S



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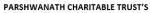
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## sales fact table

```
| sales_fact_table | CREATE TABLE `sales_fact_table` (
    `time_id` int DEFAULT NULL,
    `customer_id` int DEFAULT NULL,
    `book_id` int DEFAULT NULL,
    `store_id` int DEFAULT NULL,
    `quantity_sold` int DEFAULT NULL,
    `quantity_sold` int DEFAULT NULL,
    `sales_amount` decimal(10,2) DEFAULT NULL,
    `profit` decimal(10,2) DEFAULT NULL,
    KEY `time_id` (`time_id`),
    KEY `customer_id` (`customer_id`),
    KEY `book_id` (`book_id`),
    KEY `store_id` (`store_id`),
    CONSTRAINT `sales_fact_table_ibfk_1` FOREIGN KEY (`time_id`) REFERENCES `time` (`time_id`),
    CONSTRAINT `sales_fact_table_ibfk_2` FOREIGN KEY (`customer_id`) REFERENCES `customer` (`customer_id`),
    CONSTRAINT `sales_fact_table_ibfk_3` FOREIGN KEY (`book_id`) REFERENCES `book_dimensions` (`book_id`),
    CONSTRAINT `sales_fact_table_ibfk_4` FOREIGN KEY (`store_id`) REFERENCES `store_dimensions` (`store_id`)
    ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
```

ne_id	customer_id	book_id	store_id	quantity_sold	sales_amount	profit
100	1	201	1	500	40000.00	50.00
102	2	202	2	400	10000.00	20.00
100	3	204	3	700	90000.00	80.00
103	4	203	4	450	40000.00	50.00
102	1	204	1	220	65000.00	10.00
100	1	201	1	620	55000.00	30.00
102	2	204	2	320	65000.00	10.00
103	3	202	3	220	65000.00	50.00
102	1	203	4	120	25000.00	10.00
100	2	201	1	220	65000.00	20.00
102	1	204	1	620	35000.00	30.00
103	3	204	4	220	65000.00	70.00
102	1	202	1	520	65000.00	40.00
103	3	201	3	220	95000.00	60.00
102	1	204	1	220	65000.00	50.00





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## **Time**

```
mysql> show create table time;

| Table | Create Table

| time | CREATE TABLE `time` (
  `time_id` int NOT NULL,
  `day` int DEFAULT NULL,
  `week` varchar(20) DEFAULT NULL,
  `month` varchar(10) DEFAULT NULL,
  `year` int DEFAULT NULL,
  `quarter` varchar(20) DEFAULT NULL,
  PRIMARY KEY (`time_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
```

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#### Customer

```
mysql> show create table customer;

three customer;

Table | Create Table

customer | CREATE TABLE `customer` (
 `customer_id` int NOT NULL,
 `name` varchar(20) DEFAULT NULL,
 `gender` varchar(10) DEFAULT NULL,
 `city` varchar(20) DEFAULT NULL,
 `address` varchar(20) DEFAULT NULL,
 PRIMARY KEY (`customer_id`)
 ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |

***Three customer is customer in the customer
```





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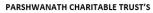
## **Book dimension**



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## store dimension





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