Name: Sampada

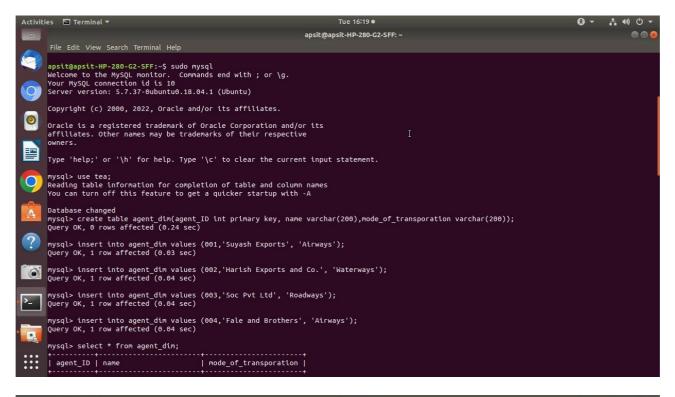
Bhadane

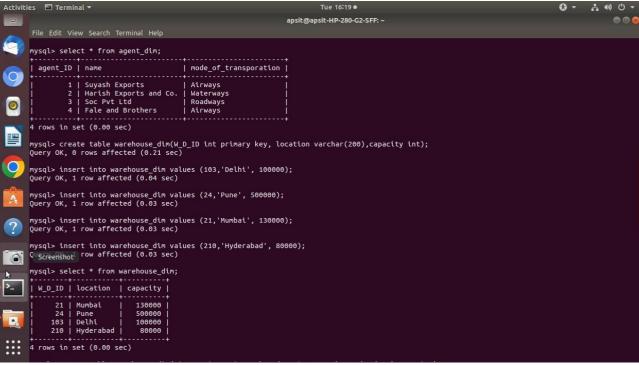
Moodle ID: 20102192

Roll No: 11 Div: A

Experiment 2

Creation of dimension tables (agent_dim, warehouse_dim, time_dim, item_dim):





```
mysql> create table warehouse_dim(time_ID int primary key,date int, month varchar(200),year int);
ERROR 1050 (42501): Table 'warehouse_dim' already exists
mysql> create table time_dim(time_ID int primary key,date int, month varchar(200),year int);
Query OK, 0 rows affected (0.19 sec)

mysql> insert into time_dim values (001,01,'February', 2018);
Query OK, 1 row affected (0.04 sec)

mysql> insert into time_dim values (002,16,'July', 2020);
Query OK, 1 row affected (0.04 sec)

mysql> insert into time_dim values (003,10,'December', 2021);
Query OK, 1 row affected (0.03 sec)

mysql> insert into time_dim values (004,08,'May', 2019);
Query OK, 1 row affected (0.04 sec)

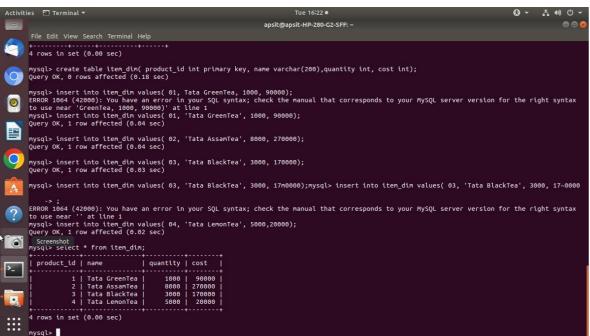
mysql> select * from time_dim;

| time_ID | date | month | year |

| 1 | 1 | February | 2018 | |
| 2 | 1 | 6 | July | 2020 |
| 3 | 1 | 0 | December | 2021 |
| 4 | 8 | May | 2019 |

4 rows in set (0.00 sec)

mysql> create table item_dim( product_id int primary key, name varchar(200),quantity int, cost int);
Query OK, 0 rows affected (0.18 sec)
```



Creation of fact table (export_fact):

```
Activities             Terminal ▼
                                                                                                                                       Tue 16:17 ●
                                                                                                                                                                                                                                              O - A 0 0 -
                                                                                                                        apsit@apsit-HP-280-G2-SFF: ~
         mysql> create table export_fact( export_id int primary key, total_cost int, unit_export int,agent_ID int, time_ID int, W_D_ID int, product_ID int, foreign key(agent_ID) references agent_dim(agent_ID), foreign key(product_ID) references item_dim(product_ID),foreign key(W_D_ID) references warehouse_dim(W_D_ID),foreign key(time_ID) references time_dim(time_ID));
Query OK, 0 rows affected (0.39 sec)
         mysql> insert into export_fact values (1, 100000, 6000, 2, 4, 103, 1); Query OK, 1 row affected (0.13 sec)
         mysql> insert into export_fact values (1, 100000, 6000, 3, 4, 210, 4);

ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'

mysql> insert into export_fact values (2, 3000000, 20000, 3, 4, 210, 4);

Query OK, 1 row affected (0.06 sec)
          mysql> insert into export_fact values (3, 325000, 20000, 1, 2, 21, 2);
Query OK, 1 row affected (0.05 sec)
          <code>mysql></code> insert into export_fact values (4, 48009000, 1600, 3, 3, 21, 1); Query 0K, 1 row affected (0.04 sec)
         mysql> insert into export_fact values (5, 80000, 600, 2, 1, 24,3 );
Query OK, 1 row affected (0.04 sec)
mysql> insert into export_fact values (6, 180000, 1000, 4, 3, 210 ,2 );
Query OK, 1 row affected (0.03 sec)
         mysql> insert into export fact values (7, 9000000, 9000, 2, 3, 103 ,1 ); Query OK, 1 row affected (0.03 \text{ sec})
          mysql> insert into export_fact values (8, 50000, 300, 1, 1, 21 ,4);
Query OK, 1 row affected (0.03 sec)
          mysql> insert into export_fact values (9, 250000, 900, 1, 2, 24 ,3);
Query OK, 1 row affected (0.03 sec)
        mysql> insert into export_fact values (10, 1250000, 2000, 3, 3, 103 ,3);
Query OK, 1 row affected (0.03 sec)
```

port_id	total_cost	unit_export	agent_ID	time_ID	W_D_ID	product_ID
1	100000	6000	2	4	103	1
2	3000000	20000	3	4	210	4
3	325000	20000	1	2	21	2
4	48009000	1600	3	3	21	1
5	80000	600	2	1	24	3
6	180000	1000	4	3	210	2
7	9000000	9000	2	3	103	1
8	50000	300	1	1	21	4
9	250000	900	1	2	24	3
10	1250000	2000	3	3	103	3

Oueries:

```
.
nysql> select max(total_cost),min(total_cost),year from export_fact as E, time_dim as T where E.time_ID = T.time_ID group by year;
  max(total_cost) | min(total_cost) | year
                                    50000 | 2018
100000 | 2019
250000 | 2020
180000 | 2021
            80000 |
3000000 |
325000 |
          48009000
4 rows in set (0.04 sec)
```

```
mysql> select count(product_ID) from export_fact where product_ID = 2;
 count(product_ID) |
                2 |
row in set (0.02 sec)
```