EXPERIMENT NO. 2

NAME: KOMAL MAHESH CHITNIS

MOODLE ID: 20102068

DIV: A

ROLL NO: 26

```
komalchitnis02@komal-virtual-machine: ~
          hitnis02@komal-virtual-machine:-$ sudo mysql
KonalchithisO2@komal-virtual-machine:-$ sudo mysql
[sudo] password for komalchitnisO2:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.29-0ubuntu0.20.04.3 (Ubuntu)
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owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database dwm_db;
Query OK, 1 row affected (0.05 sec)
 mvsal> use dwm db:
Database Changeu
mysql> create table customer_dim(cust_id int,name varchar(20),city varchar(20),state varchar(20),country varchar(20),primary key(cust_id));
Query OK, 0 rows affected (0.10 sec)
 mysql> insert into cust_dim values(1,'komal','thane','maharashtra','india');
ERROR 1146 (42502): Table 'dwm_db.cust_dim' doesn't exist
mysql> insert into customer_dim values(1,'komal','thane','maharashtra','india');
Query OK, 1 row affected (0.03 sec)
mysql> insert into customer_dim values(2,'mahek','thane','maharashtra','india');
Query OK, 1 row affected (0.81 sec)
 mysql> insert into customer_dim values(3,'sahil','mumbai','maharashtra','india');
Query OK, 1 row affected (0.01 sec)
mysql> insert into customer_dim values(4,'manav','kalyan','maharashtra','india');
Query OK, 1 row affected (0.80 sec)
 mvsal> select *from customer dim:
  cust_id | name | city | state
                                                                 country
            1 | komal | thane | maharashtra | india
2 | mahek | thane | maharashtra | india
3 | sahil | mumbai | maharashtra | india
4 | manav | kalyan | maharashtra | india
 4 rows in set (0.00 sec)
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komalchitnis02@komal-virtual-machine: ~
mysql> create table wallet_dim(wallet_id int,name varchar(20),code int);
Query OK, 0 rows affected (0.07 sec)
mysql> insert into wallet_dim values(1001,'gpay',1234);
Query OK, 1 row affected (0.01 sec)
mysql> insert into wallet_dim values(1002,'phonepay',4567);
Query OK, 1 row affected (0.01 sec)
mysql> insert into wallet_dim values(1003,'paytm',7890);
Query OK, 1 row affected (0.00 sec)
mysql> drop table wallet_dim;
Query OK, 0 rows affected (0.05 sec)
mysql> create table wallet_dim(wallet_id int,name varchar(20),code int, primary key(wallet_id)); Query OK, 0 rows affected (0.05 sec)
mysql> insert into wallet_dim values(1001,'gpay',1234);
Query OK, 1 row affected (0.00 sec)
mysql> insert into wallet_dim values(1002, 'phonepay', 4567);
Query OK, 1 row affected (0.00 sec)
mysql> insert into wallet_dim values(1003,'paytm',7890);
Query OK, 1 row affected (0.01 sec)
mysql> insert into wallet_dim values(1004,'razorpay',2357);
Query OK, 1 row affected (0.00 sec)
mysql> select *from wallet dim;
 | wallet id | name
                                I code I
          1001
                 | gpay | 1234
| phonepay | 4567
          1002
                  paytm
          1003
                                   7890
          1004 | razorpay | 2357
4 rows in set (0.01 sec)
```

```
komalchitnis02@komal-virtual-machine: ~
mysql> create table time_dim(time_key int,day int,month varchar(20),year int,primary key(time_key)); Query OK, 0 rows affected (0.08 sec)
mysql> insert into time_dim values(10,1,'february',2021);
Query OK, 1 row affected (0.01 sec)
mysql> insert into time_dim values(11,5,'may',2022);
Query OK, 1 row affected (0.01 sec)
mysql> insert into time_dim values(12,15,'august',2020);
Query OK, 1 row affected (0.01 sec)
mysql> insert into time_dim values(13,20,'october',2023);
Query OK, 1 row affected (0.01 sec)
mysql> select *from time_dim;
 | time_key | day | month
                                       | year |
           10 |
                      1 | february | 2021
                      5 may
                                          2022
                    15
                           august
                                          2020
                    20 | october
                                       2023
4 rows in set (0.00 sec)
```


(F)							komalchitnis02@	komal-virtual-machine: -	Q = - #
es customer_	dim(cust_ Y866): Lo . Trying : 8	ld),fore st conne to recon	ign key(wallet	_id) referen	ces wallet_dlmi				,primary key(trans_id),foreign key(cust_id) ref e_id) references usageservice_din(service_id));
iery OK, 8 n	ows affec	ted (8.3	9 sec)						
sql> desc t									
Field	Type	Null	Key Default	Extra					
trans_id cust_id time_key wallet_id service_id trans_date	int int int int	NO YES YES YES	PRI NULL NUL NULL NUL NULL NUL NULL NUL NULL NUL NULL						
trans_credi trans_debit	t int	YES	NULL NULL						
rows in set									
ysql> insert uery OK, 1 r	into tra	nsaction ed (0.02	_fact values(1 sec)	01,1,10,1001	,500,'2021-02-0	1',50008,6000)			
sql> insert ery OK, 1 r				02,2,11,1002	,510,'2022-05-0	5',60000,4000)			
esql> insert ery OK, 1 n				03,3,12,1803	,520,12020-08-	(5°,30000,5000)			
vsql> insert uery OK, 1 ro				04,4,13,1804	,550,'2023-10-	(0°,70008,7000)			
sql> select									
	cust_ld	time_ke	/ wallet_id	service_td	trans_date	trans_credit	trans_debit		
181 102	1 2	1	8 1861 1 1862	500 510	2021-02-01		6688 4000		
103	3 4		2 1003 3 1004		2020-08-15	30000 70000	5666 7666		
rows in set	(0.00 se	c)					*************		

```
komalchitnis02@komal-virtual-machine: ~
rows in set (0.00 sec)
 nysql> select max(trans_credit) from transaction_fact;
 max(trans_credit) |
           70000
1 row in set (0.00 sec)
mysql> select max(trans_debit) from transaction_fact;
 max(trans_debit) |
 7000 |
1 row in set (0.00 sec)
 nysql> select min(trans_credit) from transaction_fact;
 min(trans_credit) |
          30000
1 row in set (0.00 sec)
mysql> select min(trans_debit) from transaction_fact;
 min(trans_debit) |
 row in set (0.00 sec)
```

```
mysql> select cust_id from transaction_fact where trans_credit=(select max(trans_credit) from transaction_fact);
| cust id |
        4 |
1 row in set (0.01 sec)
mysql> select *from transaction_fact where trans_credit=(select max(trans_credit) from transaction_fact);
 trans_id | cust_id | time_key | wallet_id | service_id | trans_date | trans_credit | trans_debit |
                                            1004 |
                                                            550 | 2023-10-20 |
       104
                    4 1
                                                                                         70000
                                                                                                          7000 1
1 row in set (0.00 sec)
mysql> select *from transaction_fact order by trans_credit,cust_id;
| trans_id | cust_id | time_key | wallet_id | service_id | trans_date | trans_credit | trans_debit |
                                                                  2020-08-15
        103
                                                            500 |
                                                                  2021-02-01
                                 10
                                            1001
                                                                                          50000
                                                                                                           6000
                                                                                         60000
       102
                                 11
                                            1002
                                                            510
                                                                  2022-05-05
                                                                                                           4000
       104
                     4
                                13
                                            1004
                                                            550 | 2023-10-20 |
                                                                                          70000
                                                                                                           7000
4 rows in set (0.00 sec)
mysql> select *from transaction_fact order by trans_debit,cust_id;
| trans id | cust id | time key | wallet id | service id | trans date | trans credit | trans debit |
                                                                   2022-05-05
                                            1002
                                                            510 I
       103
                                            1003
                                                            520
                                                                   2020-08-15
                                                                                          30000
                                                                                                           5000
       101
                                 10
                                            1001
                                                            500
                                                                   2021-02-01
                                                                                          50000
                                                                                                           6000
       104
                                13
                                            1004
                                                            550 |
                                                                  2023-10-20
                                                                                          70000
                                                                                                           7000
4 rows in set (0.01 sec)
mysql> select city,count(*) from customer_dim group by city;
         | count(*) |
| city
  thane
                    2 |
 kalyan |
3 rows in set (0.01 sec)
                                                                                           komalchitnis02@komal-virtual-machine: ~
mysql> select avg(trans_credit) from transaction_fact;
  avg(trans_credit) |
         52500.0000
1 row in set (0.00 sec)
mysql> select avg(trans_debit) from transaction_fact;
 | avg(trans debit) |
        5500.0000
1 row in set (0.00 sec)
mysql> select *from customer dim where name like 'm%';
 cust_id | name | city | state
                                           | country |
        2 | mahek | thane | maharashtra | india
4 | manav | kalyan | maharashtra | india
2 rows in set (0.01 sec)
mysql> select state,count(*) from customer_dim group by state having city in ('thane');
ERROR 1054 (42522): Unknown column 'city' in 'having clause'
mysql> select state,count(*) from customer_dim group by state having state in('maharashtra');
              | count(*) |
state
  maharashtra |
1 row in set (0.00 sec)
mysql> select city,count(*) from customer_dim group by city having city in ('thane','mumbai');
  city | count(*) |
  thane
                   2
 rows in set (0.00 sec)
```

n			komalchitnis02@komal-virtual-machine: ~
trans_id cu	st_id time	key wallet_	trans_debit=(select avg(trans_debit) from transaction_fact where trans_date='2022-05-05'); service_id trans_date trans_credit trans_debit 510 2022-05-05 60000 4000
1 row in set (0			·+·········+
mysql> select*f Empty set (0.01		_dim where cus	id=(select cust_id from transaction_fact where service_id=(select service_id from usageservice_dim where type='paytm'));
mysql> select*f			id=(select cust_id from transaction_fact where service_id=(select service_id from usageservice_dim where type='shopping'));
cust_id nam	city	state	country
	ll mumbat	maharashtra	tndta
1 row in set (0		************	
			id=(select cust_id from transaction_fact where wallet_id=(select wallet_id from wallet_dim where type='jio')); n 'where clause'
	om customer		n whele clause id=(select cust_id from transaction_fact where wallet_id=(select wallet_id from wallet_dim where name='jio'));
mysql> select*f			id=(select cust_id from transaction_fact where wallet_id=(select wallet_id from wallet_dim where name='paytm'));
cust_id nam	clty	state	country
	ll mumbai	maharashtra	india

			komalchitnis02@komal-virtual-machine: ~								
				join custome							
						trans_credit					country
1	101		1001		2021-02-01			komal		maharashtra	
2	102	11	1002	510	2022-05-05	60000	4000	mahek	thane	maharashtra	india
3	103	12	1003	520	2020-08-15	30000	5000	sahtl	mumbal	maharashtra	india
4 1	104	13	1004	550	2023-10-20	70000	7000	manay	kalvan	maharashtra	india