SQL SCREENSHOTS

TABLES CREATED:

create table category(category_id int not null,

   -> category_name varchar(20) not null,

   -> primary key(category_id)

);

```
mysql> select * from category;
+-------------+---------------+
| category_id | category_name |
+-------------+---------------+
|           1 | tooth_paste   |
|           2 | soap          |
|           3 | eye_liner     |
|           4 | mobile        |
|           5 | earings       |
|           6 | foot_wear     |
|           7 | lipstick      |
|           8 | perfume       |
|           9 | conditioner   |
|          10 | sanitizer     |
+-------------+---------------+
10 rows in set (0.06 sec)
```

create table product(product_id int not null,

   -> product_name varchar(20) not null,

   -> unit_price int,

   -> category_id int,

   -> primary key(product_id),

   -> foreign key(category_id) references category(category_id)

   ->);

```
mysql> SELECT * from product;
+------------+----------------+------------+-------------+
| product_id | product_name   | unit_price | category_id |
+------------+----------------+------------+-------------+
|         11 | colgate        |         40 |           1 |
|         12 | mysore_sandal  |         60 |           2 |
|         13 | nyka           |        750 |           3 |
|         14 | redme          |      15000 |           4 |
|         15 | silver_earings |        450 |           5 |
|         16 | bata           |       1500 |           6 |
|         17 | lakme          |        850 |           7 |
|         18 | loreal         |        250 |           8 |
|         19 | tresseme       |        250 |           9 |
|         20 | life_boy       |        150 |          10 |
+------------+----------------+------------+-------------+
10 rows in set (0.34 sec)
```

create table customer(customer_id int not null,

    -> customer_name varchar(20) not null,

    -> gender varchar(3),

    -> c_dob date,

    -> mobile_no int,

    -> location_id int,

    -> primary key(customer_id),

    -> foreign key(location_id) references location(location_id)

    ->);

```
mysql> select * from customer;
+-------------+---------------+--------+------------+-----------+-------------+
| customer_id | customer_name | gender | c_dob      | mobile_no | location_id |
+-------------+---------------+--------+------------+-----------+-------------+
|          31 | apoorva       | f      | 1999-10-26 |     12345 |          21 |
|          32 | revanth       | m      | 1999-05-27 |     74125 |          22 |
|          33 | praharsha     | m      | 2000-10-14 |     45892 |          23 |
|          34 | prathyusha    | f      | 2000-06-18 |     45632 |          24 |
|          35 | sriram        | m      | 1998-12-18 |     45879 |          25 |
|          36 | pranitha      | f      | 2002-01-02 |     45213 |          26 |
|          37 | satwika       | f      | 1999-06-16 |     78521 |          27 |
|          38 | srikar        | m      | 2004-11-03 |     75216 |          28 |
|          39 | vedangi       | f      | 1999-10-25 |     42985 |          29 |
|          40 | pinky         | f      | 2001-12-15 |     45369 |          30 |
+-------------+---------------+--------+------------+-----------+-------------+
10 rows in set (0.22 sec)
```

create table location(location_id int not null,

   -> location_name varchar(20),

   -> primary key(location_id)

);

```
mysql> select * from location;
+-------------+---------------+
| location_id | location_name |
+-------------+---------------+
|          21 | vijayawada    |
|          22 | hyderabad     |
|          23 | chennai       |
|          24 | bangalore     |
|          25 | noida         |
|          26 | mumbai        |
|          27 | ahmedabad     |
|          28 | srinagar      |
|          29 | chandigarh    |
|          30 | Dispur        |
+-------------+---------------+
10 rows in set (0.05 sec)
```

create table sales_representative(sales_repr_id int not null,

   -> sales_repr_name varchar(20),

   -> s_dob date,

   -> s_gender varchar(20),

   -> s_mobile_no int,

   -> primary key(sales_repr_id)

   ->);

```
mysql> select * from sales_representative;
+--------------+----------------+------------+----------+-------------+
| sales_repr_id | sales_repr_name | s_dob     | s_gender | s_mobile_no |
+--------------+----------------+------------+----------+-------------+
|           41 | ram            | 2000-10-25 | m        |       12546 |
|           42 | rahul          | 1999-05-27 | m        |       78965 |
|           43 | lakshmi        | 2001-06-18 | f        |       75236 |
|           44 | preethi        | 1998-12-25 | f        |       78523 |
|           45 | jay            | 1997-11-26 | m        |       45632 |
|           46 | sam            | 1995-12-06 | m        |       78523 |
|           47 | chay           | 2112-08-19 | m        |       45698 |
|           48 | nag            | 2021-01-01 | f        |       45879 |
|           49 | pallavi        | 2001-07-28 | f        |       45896 |
|           50 | anu            | 2000-12-12 | f        |       75369 |
+--------------+----------------+------------+----------+-------------+
10 rows in set (0.05 sec)
```

create table purchase(purchase_id int not null,

   -> product_id int not null,

   -> customer_id int not null,

   -> sales_repr_id int not null,

   -> no_of_units int,

   -> date_of_purchase date,

   -> primary key(purchase_id),

   -> foreign key(product_id) references product(product_id),

   -> foreign key(customer_id) references customer(customer_id),

   -> foreign key(sales_repr_id) references
sales_representative(sales_repr_id)

   ->);

```
mysql> select * from purchase;
+-------------+------------+-------------+--------------+-------------+------------------+
| purchase_id | product_id | customer_id | sales_repr_id | no_of_units | date_of_purchase |
+-------------+------------+-------------+--------------+-------------+------------------+
|          51 |         11 |          31 |           41 |           5 | 2021-01-01       |
|          52 |         11 |          35 |           42 |           4 | 2021-01-01       |
|          53 |         15 |          37 |           45 |           2 | 2021-01-01       |
|          54 |         13 |          38 |           46 |           6 | 2021-01-01       |
|          55 |         12 |          34 |           45 |           7 | 2021-01-05       |
|          56 |         12 |          36 |           46 |           8 | 2021-01-05       |
|          57 |         13 |          34 |           45 |           6 | 2021-01-05       |
|          58 |         12 |          39 |           46 |           8 | 2021-01-07       |
|          59 |         11 |          38 |           50 |           9 | 2021-01-07       |
|          60 |         11 |          36 |           48 |           5 | 2021-01-07       |
|          61 |         13 |          35 |           42 |           6 | 2021-01-03       |
|          62 |         12 |          36 |           44 |           7 | 2021-01-04       |
|          63 |         12 |          36 |           45 |           8 | 2021-01-04       |
+-------------+------------+-------------+--------------+-------------+------------------+
```

create table normalized_table_1(product_id int not null,

 -> category_id int not null,

 -> primary key(product_id),

 -> foreign key(product_id) references product(product_id),

 -> foreign key(category_id) references category(category_id)

 ->);

```
mysql> select * from normalized_table_1;
+------------+-------------+
| product_id | category_id |
+------------+-------------+
|         11 |           1 |
|         12 |           2 |
|         13 |           3 |
|         14 |           4 |
|         15 |           5 |
|         16 |           6 |
|         17 |           7 |
|         18 |           8 |
|         19 |           9 |
|         20 |          10 |
+------------+-------------+
10 rows in set (0.04 sec)
```

create table normalized_table_2(customer_id int not null,

```
-> location_id int not null,

-> purchase_id int not null,

-> primary key(purchase_id),

-> foreign key(purchase_id) references purchase(purchase_id),

-> foreign key(customer_id) references customer(customer_id),

-> foreign key(location_id) references location(location_id)

);
```

```
mysql> select * from normalized_table_2;
+-------------+-------------+-------------+
| customer_id | location_id | purchase_id |
+-------------+-------------+-------------+
|          31 |          21 |          51 |
|          35 |          25 |          52 |
|          37 |          27 |          53 |
|          38 |          28 |          54 |
|          34 |          24 |          55 |
|          36 |          26 |          56 |
|          34 |          24 |          57 |
|          39 |          29 |          58 |
|          38 |          28 |          59 |
|          36 |          26 |          60 |
|          35 |          25 |          61 |
|          36 |          26 |          62 |
|          36 |          26 |          63 |
+-------------+-------------+-------------+
13 rows in set (0.00 sec)
```

```
create table normalized_table_3(location_id int not null,

-> state varchar(20),

-> primary_key(location_id),

-> foreign_key(location_id) references location(location_id)

-> );
```

```
mysql> select * from normalized_table_3;
+-------------+----------------+
| location_id | state          |
+-------------+----------------+
|          21 | andhra_pradesh |
|          22 | telangana      |
|          23 | tamilnadu      |
|          24 | karnataka      |
|          25 | delhi          |
|          26 | maharastra     |
|          27 | gujarat        |
|          28 | kashmir        |
|          29 | haryana        |
|          30 | assam          |
+-------------+----------------+
10 rows in set (0.04 sec)
```