Lab 7

Date:21/01/2026

Topic: Mysql Inner Join

Question:

1. **Create a database : name can be called as flipkart.**
2. **Create a 5 table : first table name can be called as product.**
3. **Following fields or attributes [pid, pname, pmanu, pdate, plocation, pamount]**

```
mysql> Create database flipkart;
Query OK, 1 row affected (0.76 sec)

mysql> use flipkart;
Database changed
mysql> create table product (pid int primary key, pname varchar(100),pmanu varchar(100),pdate date,plocation varchar(100),pamount decimal (10,2));
Query OK, 0 rows affected (3.40 sec)

mysql> desc product;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| pid       | int          | NO   | PRI | NULL    |       |
| pname     | varchar(100) | YES  |     | NULL    |       |
| pmanu     | varchar(100) | YES  |     | NULL    |       |
| pdate     | date         | YES  |     | NULL    |       |
| plocation | varchar(100) | YES  |     | NULL    |       |
| pamount   | decimal(10,2) | YES  |     | NULL    |       |
+-----------+--------------+------+-----+---------+-------+
```

4. **Second table name can be called as seller.**
5. **Following fields or attributes [pid, sid, sname, sdate, slocation, samount]**

```
mysql> create table seller (pid int, sid int primary key, sname varchar(100),sdate date, slocation varchar(100),samount decimal(10,2), foreign key (pid) references prod
uct (pid));
Query OK, 0 rows affected (3.42 sec)

mysql> desc seller;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| pid       | int          | YES  | MUL | NULL    |       |
| sid       | int          | NO   | PRI | NULL    |       |
| sname     | varchar(100) | YES  |     | NULL    |       |
| sdate     | date         | YES  |     | NULL    |       |
| slocation | varchar(100) | YES  |     | NULL    |       |
| samount   | decimal(10,2) | YES  |     | NULL    |       |
+-----------+--------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

6. **Third table name can be called as dealer.**

7. **Following fields or attributes [pid, did, dname, ddate, dlocation, damount]**

```
mysql> create table dealer (pid int, did int primary key, dname varchar(100),ddate date, dlocation varchar(100), damount decimal (10,2), foreign key (pid) references se
ller (pid));
Query OK, 0 rows affected (1.66 sec)

mysql> desc dealer;
+----------+--------------+------+-----+---------+-------+
| Field    | Type         | Null | Key | Default | Extra |
+----------+--------------+------+-----+---------+-------+
| pid      | int          | YES  | MUL | NULL    |       |
| did      | int          | NO   | PRI | NULL    |       |
| dname    | varchar(100) | YES  |     | NULL    |       |
| ddate    | date         | YES  |     | NULL    |       |
| dlocation | varchar(100) | YES  |     | NULL    |       |
| damount  | decimal(10,2) | YES  |     | NULL    |       |
+----------+--------------+------+-----+---------+-------+
6 rows in set (0.01 sec)
```

8. **Fourth table name can be called as shop.**

9. **Following fields or attributes [pid, shid, shname, shdate, shlocation, shamount]**

```
mysql> create table shop (pid int, shid int primary key, shname varchar(100),shdate date,shlocation varchar(100),shamount decimal(10,2), foreign key (pid) references de
aler (pid));
Query OK, 0 rows affected (1.51 sec)

mysql> desc shop;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| pid       | int          | YES  | MUL | NULL    |       |
| shid      | int          | NO   | PRI | NULL    |       |
| shname    | varchar(100) | YES  |     | NULL    |       |
| shdate    | date         | YES  |     | NULL    |       |
| shlocation | varchar(100) | YES  |     | NULL    |       |
| shamount  | decimal(10,2) | YES  |     | NULL    |       |
+-----------+--------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

10. **Fifth table name can be called as customer.**

11. **Following fields or attributes [pid, cid, cname, cdate, sclocation, camount]**

```
mysql> create table customer (pid int, cid int primary key, cname varchar(100),cdate date,clocation varchar(100),camount decimal(10,2), foreign key (pid) references sho
p (pid));
Query OK, 0 rows affected (1.62 sec)

mysql> desc customer;
+----------+--------------+------+-----+---------+-------+
| Field    | Type         | Null | Key | Default | Extra |
+----------+--------------+------+-----+---------+-------+
| pid      | int          | YES  | MUL | NULL    |       |
| cid      | int          | NO   | PRI | NULL    |       |
| cname    | varchar(100) | YES  |     | NULL    |       |
| cdate    | date         | YES  |     | NULL    |       |
| clocation | varchar(100) | YES  |     | NULL    |       |
| camount  | decimal(10,2) | YES  |     | NULL    |       |
+----------+--------------+------+-----+---------+-------+
6 rows in set (0.00 sec)
```

12. Insert data for 5 tables

```
mysql> insert into  product values (100,'Acer-nitro', 'Acer','2025-06-21', 'china',25000);
Query OK, 1 row affected (0.59 sec)

mysql> insert into  seller values (100,2,'dhinesh','2025-10-21', 'tamil nadu',26000);
Query OK, 1 row affected (0.42 sec)

mysql> insert into  dealer values (100,3,'Mujeeb','2025-11-21', 'chennai',28000);
Query OK, 1 row affected (0.17 sec)

mysql> insert into  shop values (100,4,'happy accessories','2025-12-21', 'anna nagar',38000);
Query OK, 1 row affected (0.29 sec)

mysql> insert into  customer values (100,5,'esaki','2026-01-21', 'no:181,4th street,kolathur',40000);
Query OK, 1 row affected (0.34 sec)
```

13. To view the data inside of the table.

Select * from table name;

```
mysql> select * from product;
+-----+------------+-------+------------+-----------+-----------+
| pid | pname      | pmanu | pdate      | plocation | pamount   |
+-----+------------+-------+------------+-----------+-----------+
| 100 | Acer-nitro | Acer  | 2025-06-21 | china     | 25000.00 |
+-----+------------+-------+------------+-----------+-----------+
1 row in set (0.02 sec)
```

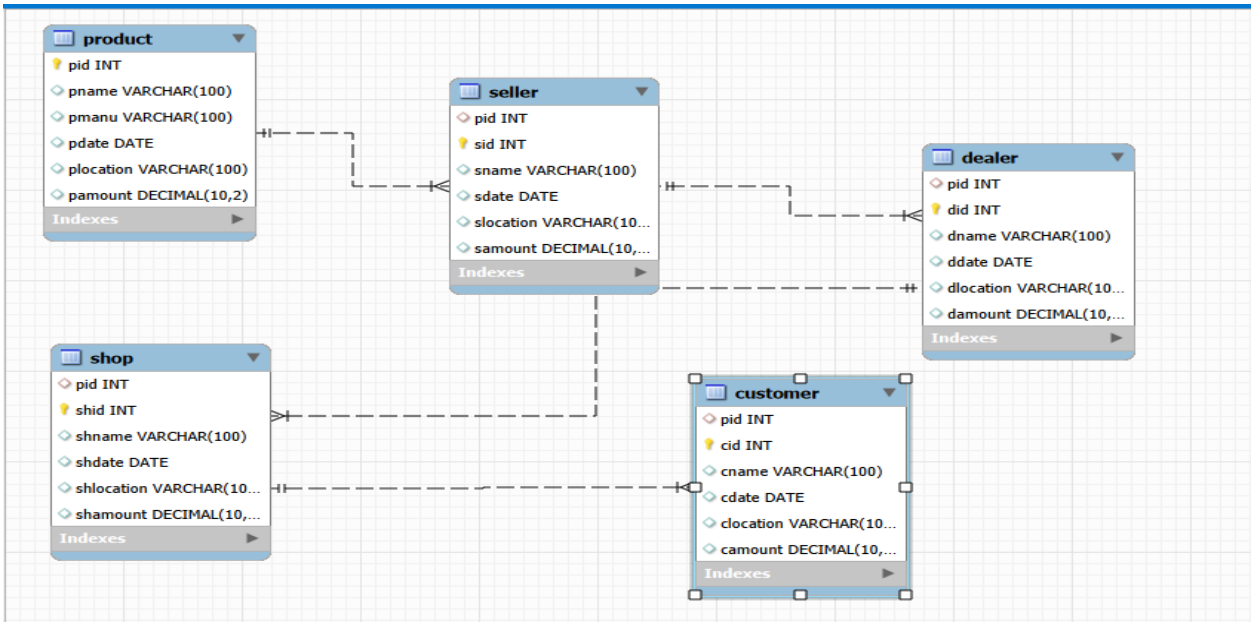
```
mysql> select * from seller;
+------+-----+---------+------------+------------+----------+
| pid  | sid | sname   | sdate      | slocation  | samount  |
+------+-----+---------+------------+------------+----------+
|  100 |   2 | dhinesh | 2025-10-21 | tamil nadu | 26000.00 |
+------+-----+---------+------------+------------+----------+
1 row in set (0.00 sec)

mysql> select * from dealer;
+------+-----+--------+------------+-----------+----------+
| pid  | did | dname  | ddate      | dlocation | damount  |
+------+-----+--------+------------+-----------+----------+
|  100 |   3 | Mujeeb | 2025-11-21 | chennai   | 28000.00 |
+------+-----+--------+------------+-----------+----------+
1 row in set (0.00 sec)

mysql> select * from shop;
+------+------+--------------------+------------+------------+----------+
| pid  | shid | shname             | shdate     | shlocation | shamount |
+------+------+--------------------+------------+------------+----------+
|  100 |    4 | happy accessories | 2025-12-21 | anna nagar | 38000.00 |
+------+------+--------------------+------------+------------+----------+
1 row in set (0.00 sec)
```

```
mysql> select * from customer;
+------+-----+-------+------------+-----------------------------+----------+
| pid  | cid | cname | cdate      | clocation                   | camount  |
+------+-----+-------+------------+-----------------------------+----------+
|  100 |   5 | esaki | 2026-01-21 | no:181,4th street,kolathur | 40000.00 |
+------+-----+-------+------------+-----------------------------+----------+
1 row in set (0.00 sec)
```

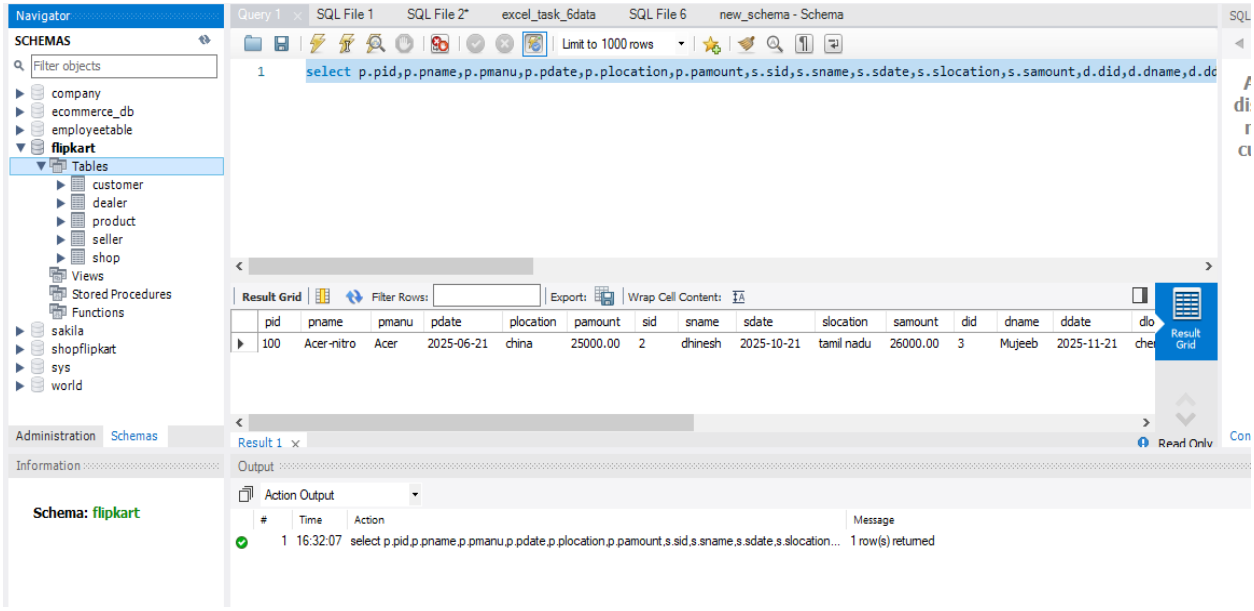
ER diagram



14. Here I used *Inner join* to relationship each table together and generate single report.

```
mysql> select p.pid,p.pname,p.pmanu,p.pdate,p.plocation,p.pamount,s.sid,s.sname,s.sdate,s.slocation,s.samount,d.did,d.dname,d.ddate,d.dlocation,d.damount,sh.shid,sh.shn
ame,sh.shdate,sh.shlocation,sh.shamount,c.cid,c.cname,c.cdate,c.clocation,c.camount from product p inner join seller s on p.pid=s.pid inner join dealer d on s.pid=d.pid
 inner join shop sh on d.pid=sh.pid inner join customer c on sh.pid=c.pid;
+-----+-----------+------+----------+----------+---------+-----+--------+----------+-----------+---------+-----+--------+----------+----------+---------+
------+----------------+----------+----------+---------+-----+------+----------+-------------------------+---------+
| pid | pname     | pmanu | pdate    | plocation | pamount | sid | sname  | sdate    | slocation | samount | did | dname  | ddate    | dlocation | damount |
 shid | shname         | shdate   | shlocation | shamount | cid | cname | cdate    | clocation               | camount |
+-----+-----------+------+----------+----------+---------+-----+--------+----------+-----------+---------+-----+--------+----------+----------+---------+
------+----------------+----------+----------+---------+-----+------+----------+-------------------------+---------+
| 100 | Acer-nitro | Acer  | 2025-06-21 | china     | 25000.00 |   2 | dhinesh | 2025-10-21 | tamil nadu | 26000.00 |   3 | Mujeeb | 2025-11-21 | chennai   | 28000.00 |
   4 | happy accessories | 2025-12-21 | anna nagar | 38000.00 |   5 | esaki | 2026-01-21 | no:181,4th street,kolathur | 40000.00 |
+-----+-----------+------+----------+----------+---------+-----+--------+----------+-----------+---------+-----+--------+----------+----------+---------+
------+----------------+----------+----------+---------+-----+------+----------+-------------------------+---------+
1 row in set (0.02 sec)
```

Workbench visual:



15. Every time I do long query again instead of, I created customize user executed query into short with the help of *view* in both command line as well as workbench in mysql.

Syntax:

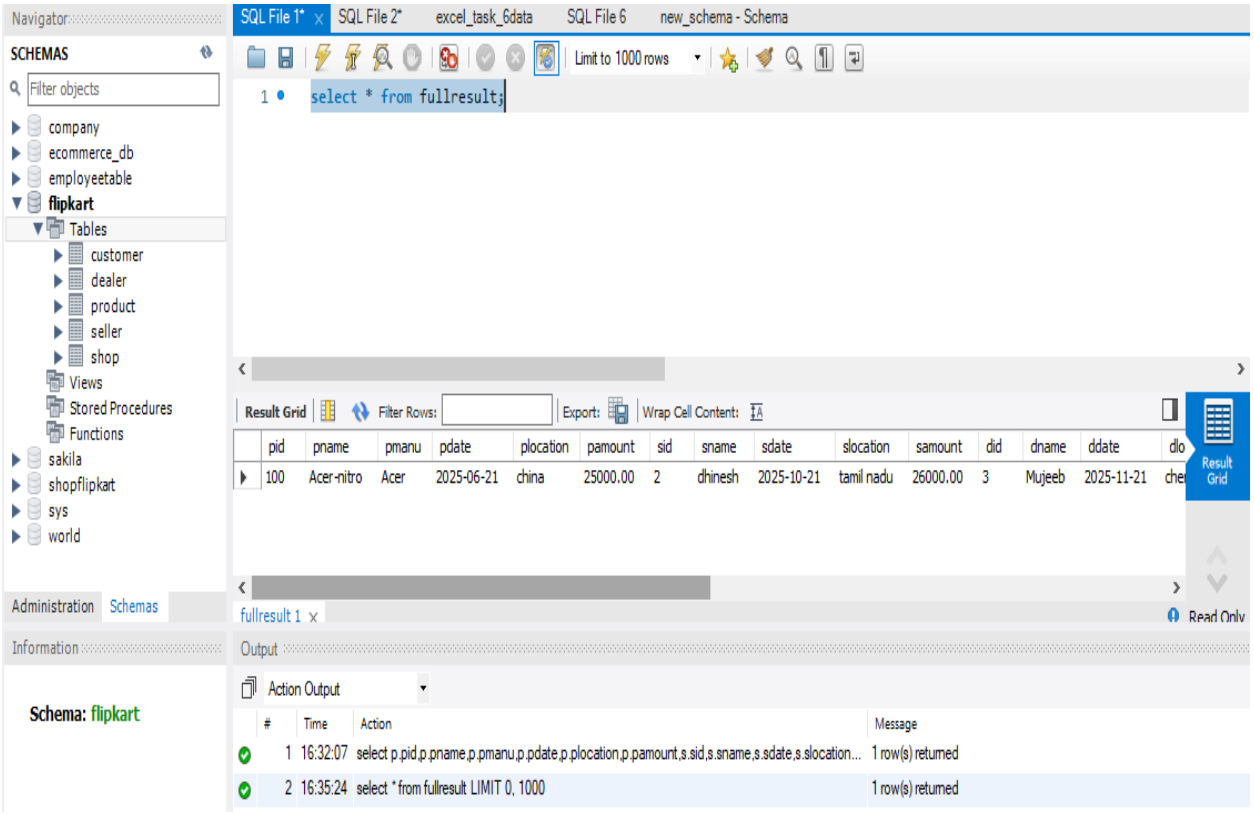
Create view viewname [my follow query]

```
mysql> create view fullresult as select p.pid,p.pname,p.pmanu,p.pdate,p.plocation,p.pamount,s.sid,s.sname,s.sdate,s.slocation,s.samount,d.did,d.dname,d.ddate,d.dlocatio
n,d.damount,sh.shid,sh.shname,sh.shdate,sh.shlocation,sh.shamount,c.cid,c.cname,c.cdate,c.clocation,c.camount from product p inner join seller s on p.pid=s.pid inner jo
in dealer d on s.pid=d.pid inner join shop sh on d.pid=sh.pid inner join customer c on sh.pid=c.pid;
Query OK, 0 rows affected (0.34 sec)

mysql> select * from fullresult;
+-----+-----------+------+-----------+----------+---------+-----+---------+-----------+-----------+---------+----+-------+-----------+----------+---------+
-----+-----------------+-----------+-----------+----------+-----+-------+-----------+-------------------------+----------+
| pid | pname     | pmanu | pdate     | plocation | pamount | sid | sname   | sdate     | slocation | samount | did | dname | ddate     | dlocation | damount |
 shid | shname          | shdate    | shlocation | shamount | cid | cname | cdate     | clocation               | camount  |
+-----+-----------+------+-----------+----------+---------+-----+---------+-----------+-----------+---------+----+-------+-----------+----------+---------+
-----+-----------------+-----------+-----------+----------+-----+-------+-----------+-------------------------+----------+
| 100 | Acer-nitro | Acer  | 2025-06-21 | china     | 25000.00 |   2 | dhinesh | 2025-10-21 | tamil nadu | 26000.00 |   3 | Mujeeb | 2025-11-21 | chennai   | 28000.00 |
   4 | happy accessories | 2025-12-21 | anna nagar | 38000.00 |   5 | esaki | 2026-01-21 | no:181,4th street,kolathur | 40000.00 |
+-----+-----------+------+-----------+----------+---------+-----+---------+-----------+-----------+---------+----+-------+-----------+----------+---------+
-----+-----------------+-----------+-----------+----------+-----+-------+-----------+-------------------------+----------+
1 row in set (0.02 sec)
```

Here I used view name as fullresult.

Workbench visual:



About this lab: I learnt very well in using of inner joins to relationship more table into single table report and customized user query also understood well.