mysql>create database lab3;

mysql>use lab3;

**Tables Creation:-**

mysql> CREATE TABLE solar\_panel (PV VARCHAR(25),capacity INT,price INT,warranty INT);

Query OK, 0 rows affected (1.37 sec)

**Data Insertion:-**

mysql> insert into solar\_panel values("pv\_5",5,4000,7,"polycystalline");

Query OK, 1 row affected (0.06 sec)

**Question Answer:-**

1)list the vendors with most installation in domestic places

sql>select d.d\_name,count(d.d\_TIN) from distributor d,installation i where i.d\_TIN=d.d\_TIN and i.ins\_type="non-commercial" group by d.d\_TIN;

2)list the place name with highest capacity panel installed

sql> select u.u\_area from users u,solar\_panel p,installation i where u.u\_buildno=i.u\_buildno and p.pv=i.pv and p.capacity=(select max(capacity) from solar\_panel);

3)display the area where monocrystalline pannelsa are installed

sql> select distinct u.u\_area,u.u\_buildno from users u,solar\_panel p,installation i where u.u\_buildno=i.u\_buildno and p.pv=i.pv and p.type="monocystalline";

4)List the place where both type of panels are installed and calculate the installation charges.

sql>select u.u\_buildno,u.u\_area,s.type from users u,installation i,solar\_panel s where s.PV=i.PV and u.u\_buildno=i.u\_buildno and s.type="monocystalline";

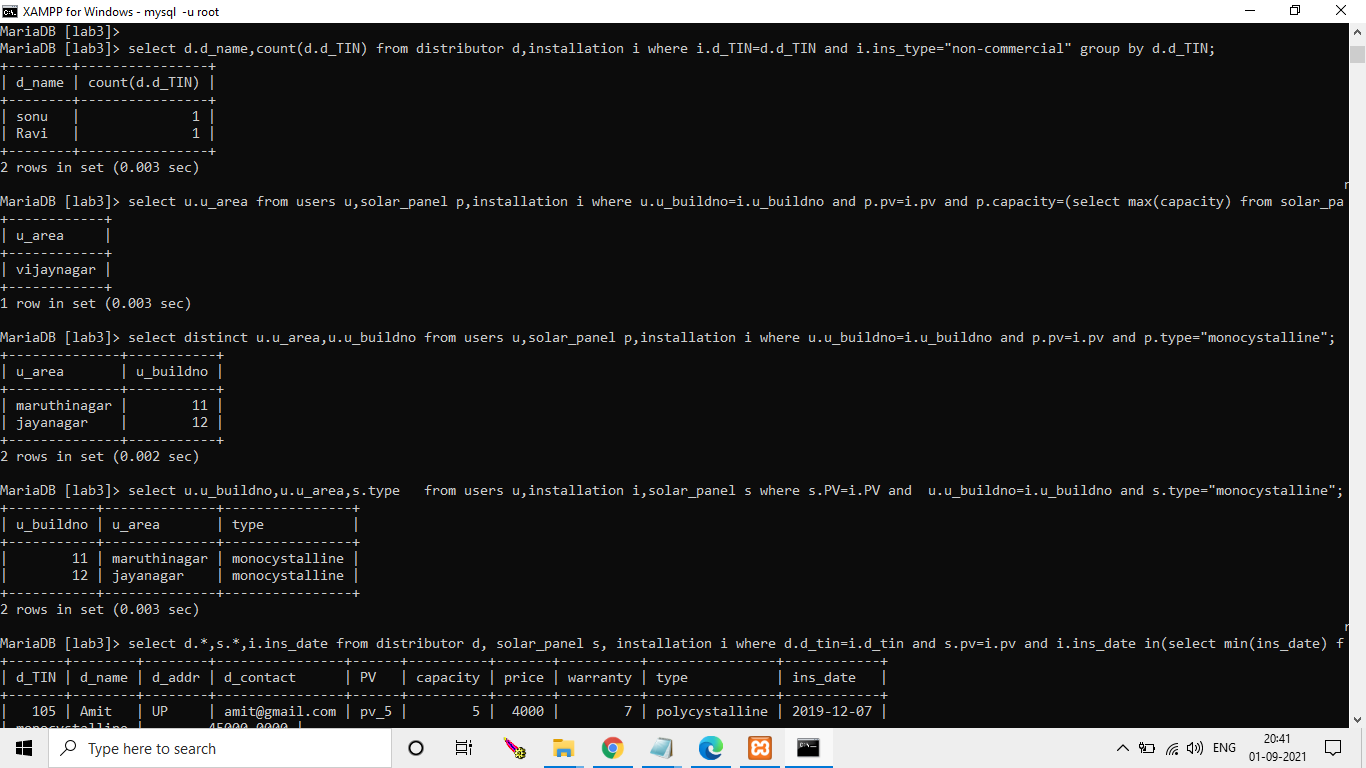
5)list the details of vendor and panel that is the oldest installation

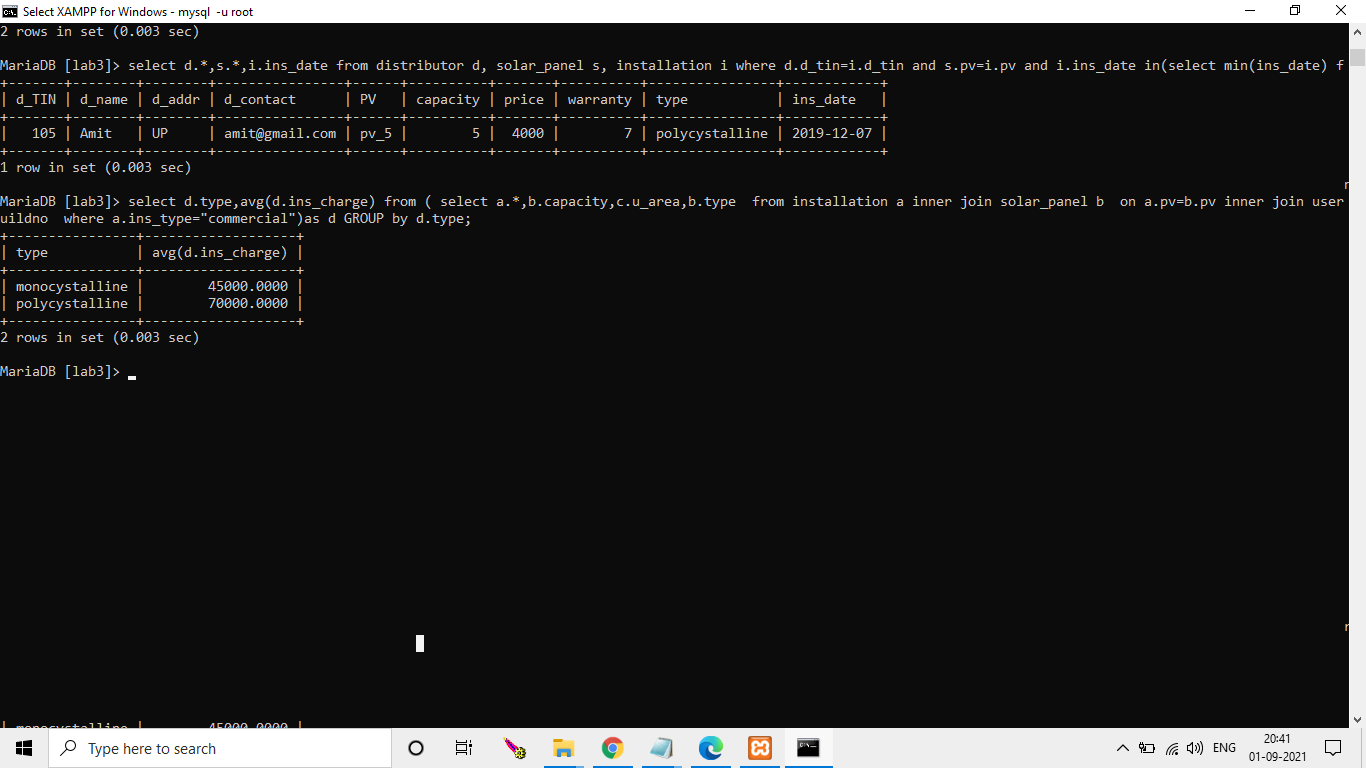
sql> select d.\*,s.\*,i.ins\_date from distributor d, solar\_panel s, installation i where d.d\_tin=i.d\_tin and s.pv=i.pv and i.ins\_date in(select min(ins\_date) from installation);

6)find the average sales of both type of panels in only commercial places

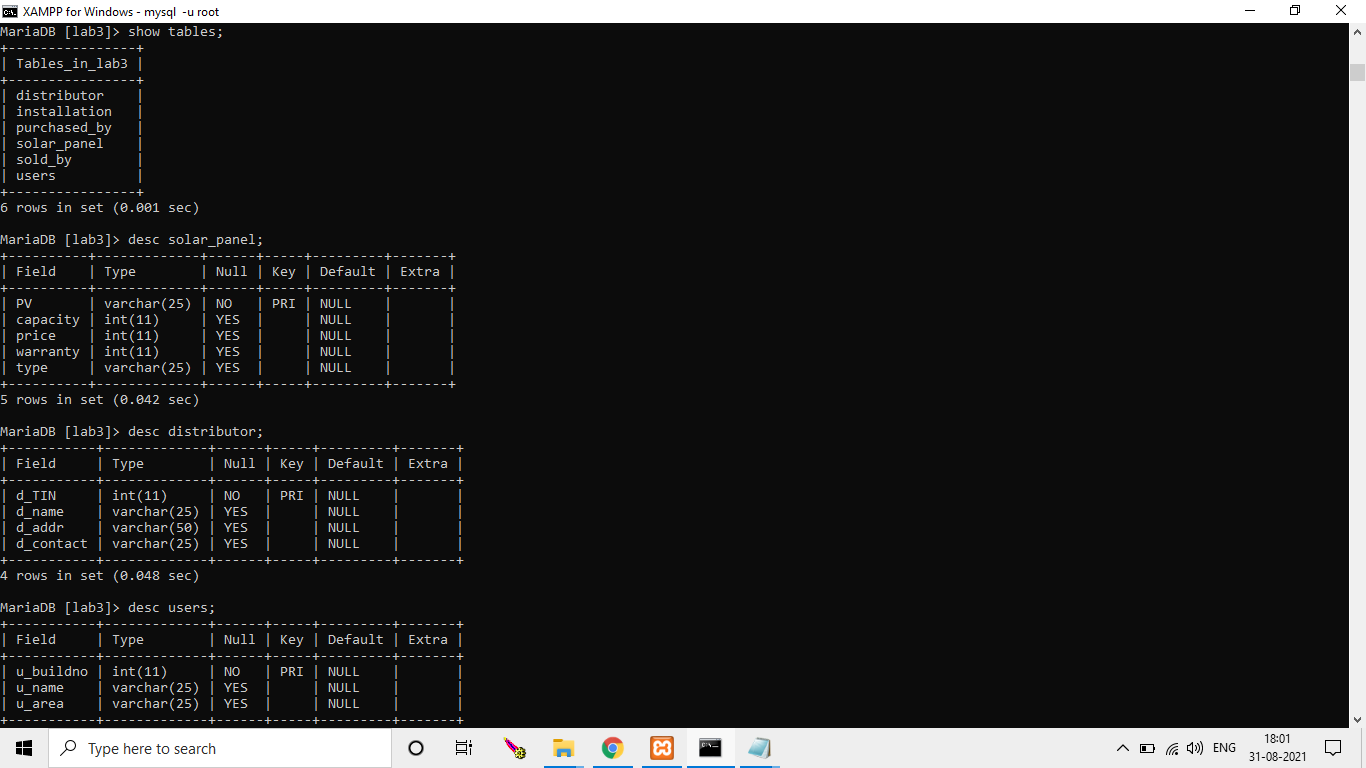
sql> select d.type,avg(d.ins\_charge) from ( select a.\*,b.capacity,c.u\_area,b.type from installation a inner join solar\_panel b on a.pv=b.pv inner join users c on c.u\_buildno=a.u\_buildno where a.ins\_type="commercial")as d GROUP by d.type;

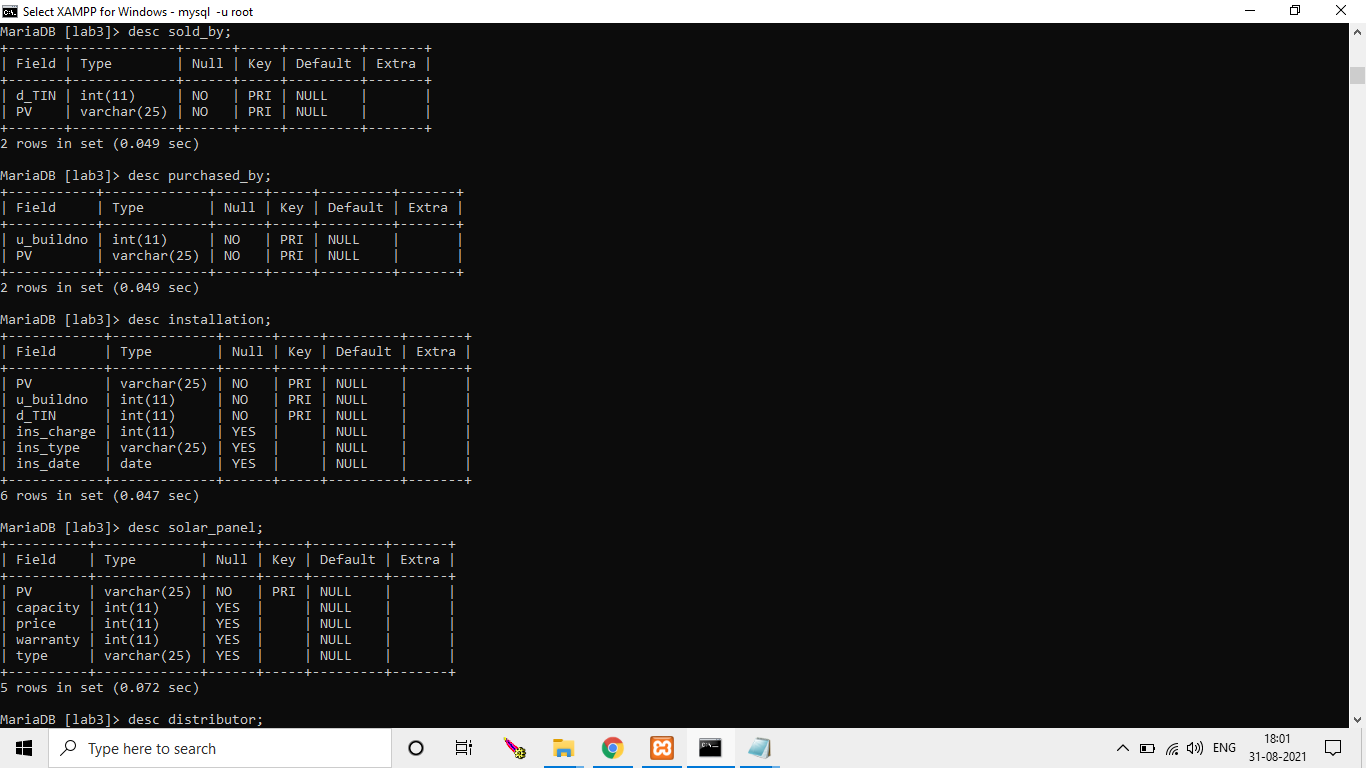
**Screenshot of Question Answer:-**

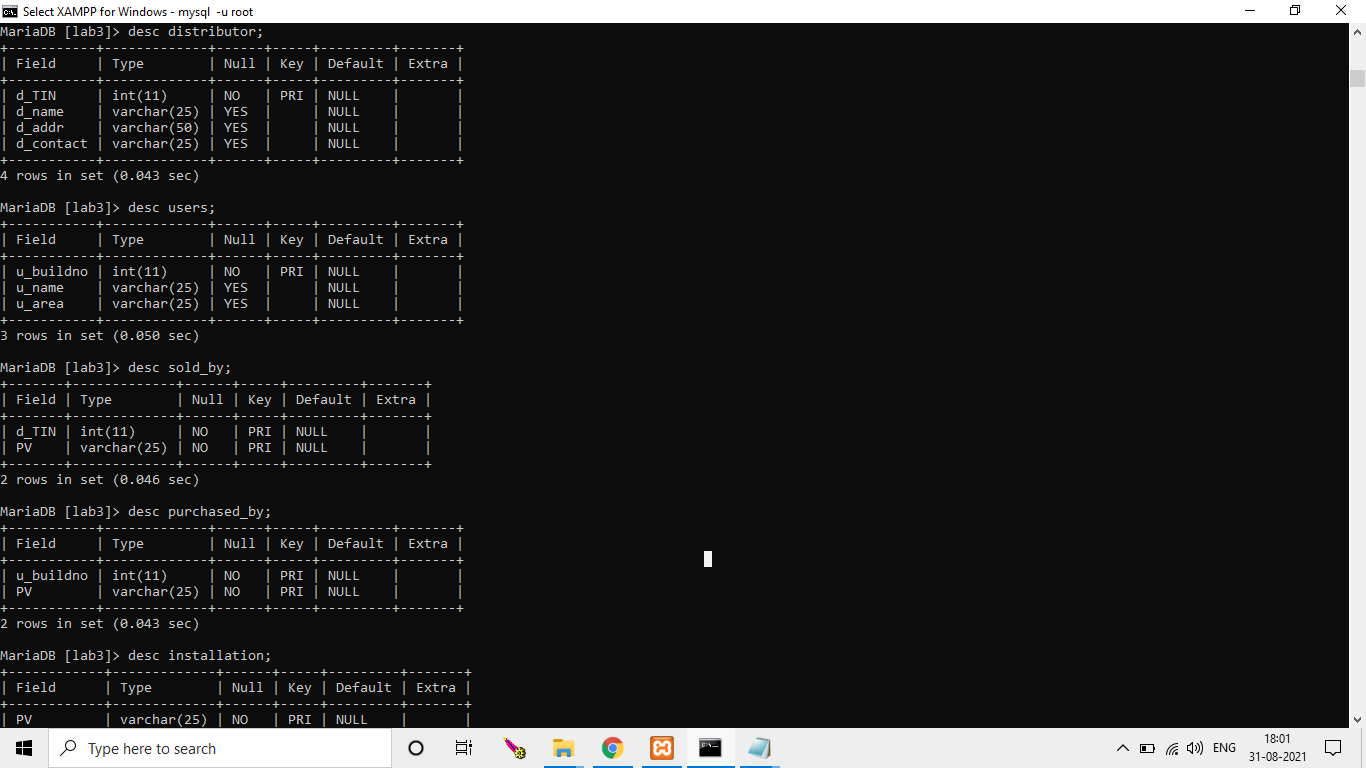
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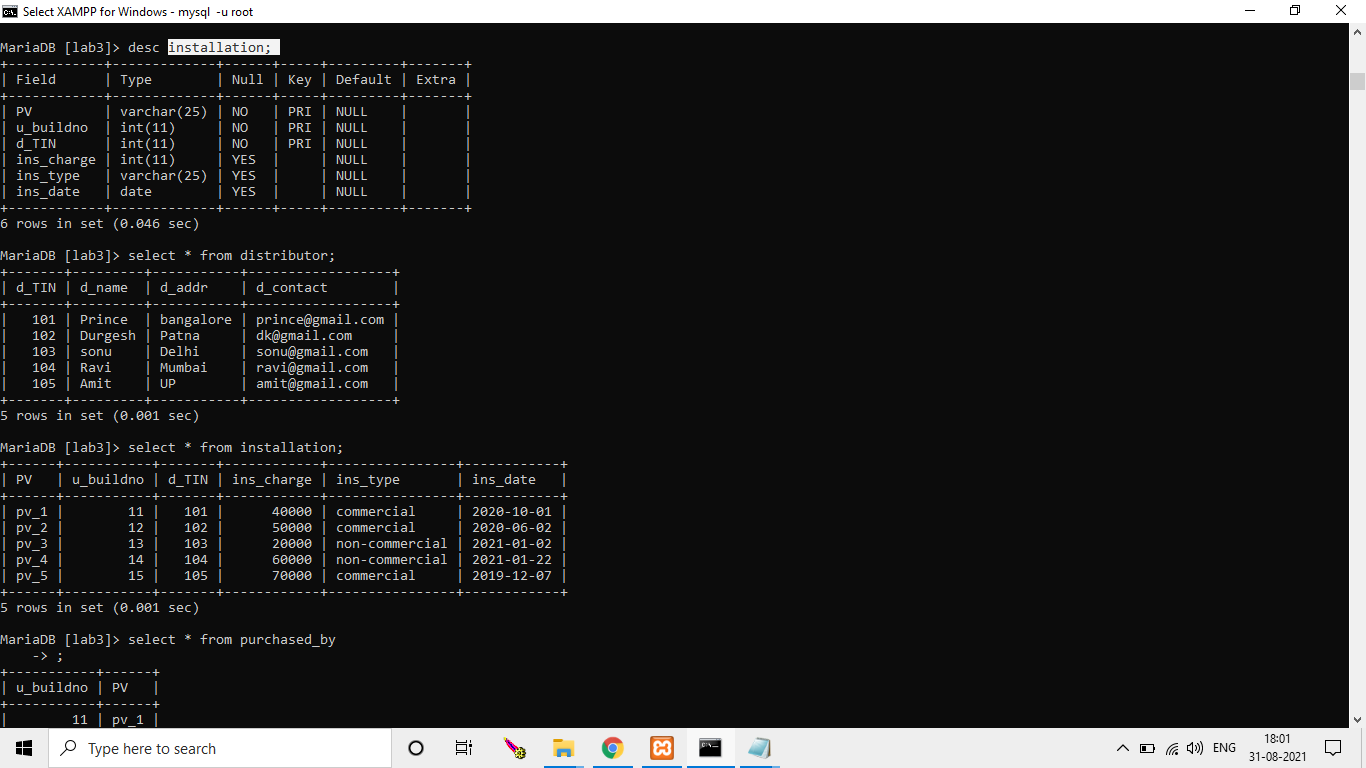
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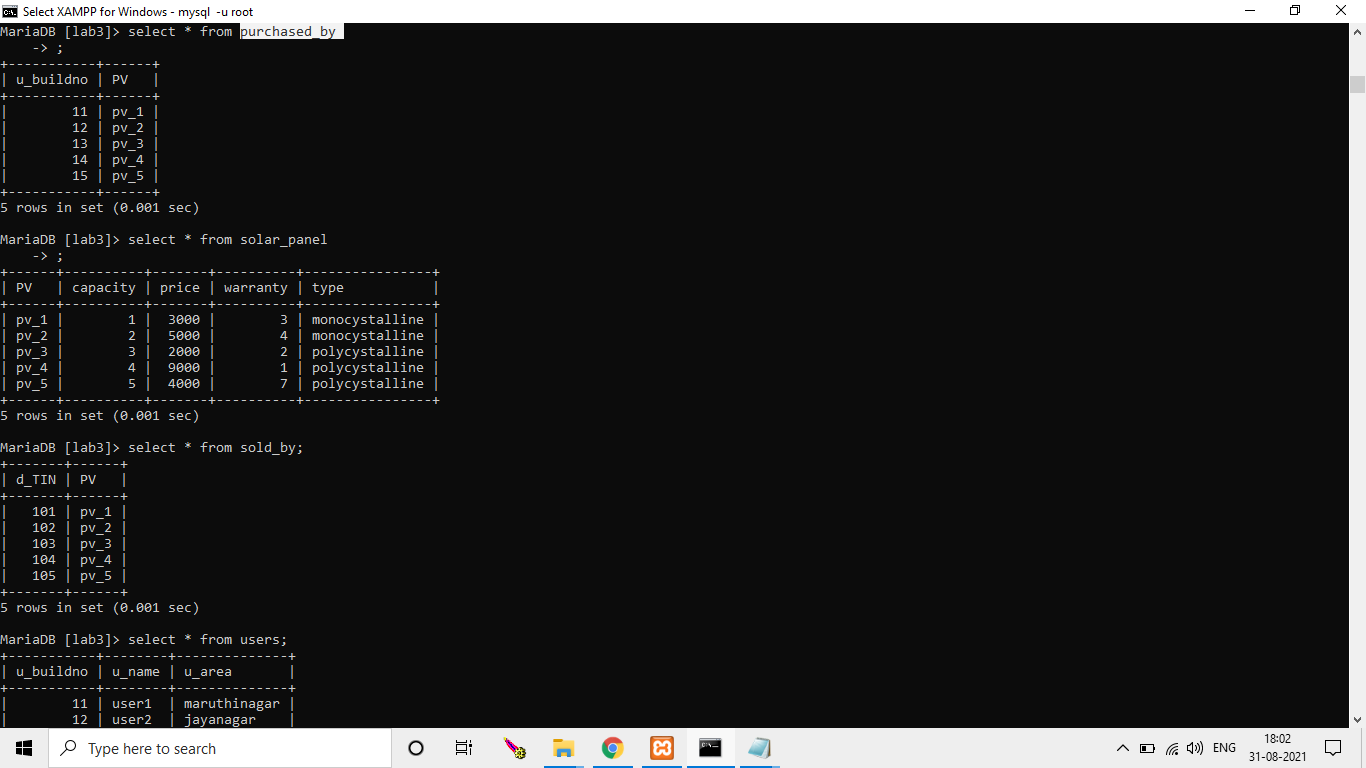
**Describe of a table:-**

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