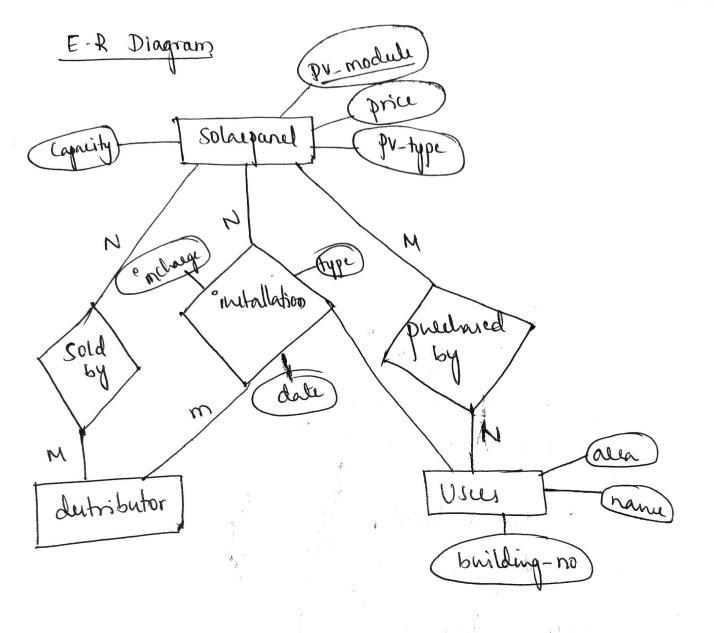
## R.V. COLLEGE OF ENGINEERING OBSERVATION / DATA SHEET

Date	Name ANUSHA MANTUNATH RAYKAR
Dept./Lab <u>DBNS</u>	_ Class <u>MtA - I</u> Expt./No03 <sub>′</sub>
Title Solve- Planet dotaba	AL .
2) Distributor -> Tin	Attributy:  (photovoltaic)  acity, PV-module, pièce, pv-type, capacity  name, address, Contact details (vendors)  rea, build-rep (building no)
Pelationships and cardi	
1) Solarpanel Soldby 1  Solarpanel N Sold r	
2) Solasparel morrell	
3. [Solarpannel] M [Int	mendors for men

Signature of Teacher incharge

- - furo Ol

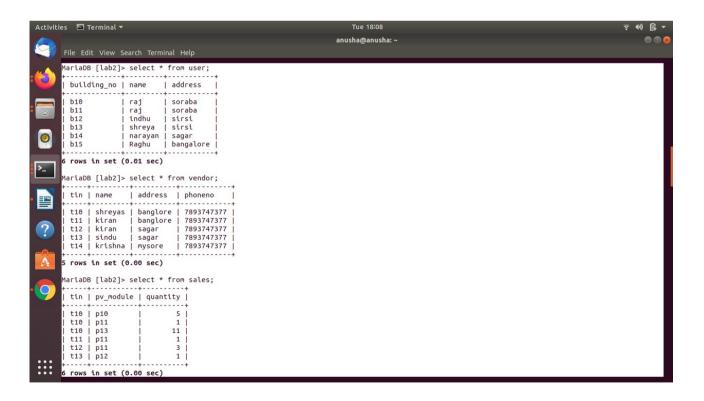


## R.V. COLLEGE OF ENGINEERING OBSERVATION / DATA SHEET

Date	_ Name	
Dept./Lab	_ Class	_ Expt./No
Title	_	
Schema diagram?  Solar-parel:  PV-module capacity  destributor:  Tin Name addr  Usees!  Sold-by  Tv-Tin PV-mode	reps Contact ,	
Pheland by Librid-no Pr-mode	ede J	
"initallation Tou module build-no	ol Tin in cha	ege date type

Signature of Teacher incharge

```
MariaDB [lab2]> select * from installation;
+----+
| tin | pv_module | building_no | idate
                         | charge | ptype
| t10 | p10
          | b10
| b11
| t10 | p11
                   | 2020-02-02 | 21000 | domestic
| t11 | p11
                   | 2020-02-02 | 21000 | commercial |
          | b14
                   | 2020-02-02 | 21000 | commercial |
| t11 | p11
                   | 2020-02-02 | 25000 | domestic |
| 2020-02-02 | 21000 | commercial |
          | b11
| t11 | p12
        | b12
| t11 | p12
6 rows in set (0.00 sec)
```



## **QUERIES:**

1)list the vendors with most installation in domestic places

select v.name,count(v.tin) from vendor v, installation i where i.tin=v.tin and i.ptype="domestic" group by v.tin order by max(v.tin);

2)list the place name with highest capacity panel installed select distinct u.address,u.building\_no from user u,solar\_panel p,installation i where u.building\_no=i.building\_no and p.pv\_module=i.pv\_module and p.sp\_type="mono";

3)display the area where monocrystalline pannelsa are installed select u.address from user u,solar\_panel p,installation i where u.building\_no=i.building\_no and

p.pv\_module=i.pv\_module and p.capacity=(select max(capacity) from solar\_panel);

## 4)list the place where both type of panels are installed and calculate the installation charges

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

select v.\*,s.\*,i.idate from vendor v, solar\_panel s, installation i where v.tin=i.tin and s.pv\_module=i.pv\_module and i.idate in(select min(idate) from installation);

MariaDB [lab2]> select v.\*,s.\*,i.idate from vendor v, solar\_panel s, installation i where v.tin=i.tin and s.pv\_module=i.pv\_module and i.idate in(select min(idate) from installation);

tin   name	l address l	nhoneno	l ny module	installation charge	l sn type	l canacity	idate
+	++		+	+	+	+	++
t10   shreyas	banglore	7893747377	p10	20000	mono	20	2020-02-02
t10   shreyas	banglore	7893747377	p11	21000	poly	11	2020-02-02
t11   kiran	banglore	7893747377	p11	21000	poly	11	2020-02-02
t11   kiran	banglore	7893747377	p11	21000	poly	11	2020-02-02
t11   kiran	banglore	7893747377	p12	25000	mono	12	2020-02-02
t11   kiran	banglore	7893747377	p12	25000	mono	12	2020-02-02
	++		+	+	+	+	+
rows in set (0	.00 sec)						

6)find the average sales of both type of panels in only commercial places select d.sp\_type,avg(d.charge) from ( select a.\*,b.capacity,c.address,b.sp\_type from installation a

inner join solar\_panel b on a.pv\_module=b.pv\_module inner join user c on c.building\_no=a.building\_no where a.ptype="commercial")as d GROUP by d.sp\_type;

MariaDB [lab2]> select d.sp\_type,avg(d.charge) from ( select a.\*,b.capacity,c.address,b.sp\_type from installation a inner join solar\_panel b on a.pv\_module=b.pv\_module inner join user c on c.building\_no=a.building\_no where a.ptype="commercial")as d GROUP by d.sp\_type;

sp_type	avg(d.charge)
mono   poly	21000.0000   21000.0000
	+ (0 00)

2 rows in set (0.00 sec)