India is leading country in producing renewable solar energy. There are two types of solar panels available in India namely, monocrystalline and polycrystalline solar panel which are installed on the roof. Both the type of panel is available for demestric and commercial usage. The The installablation charges for monocrystalline panels are around 40,000 and polycrystalline panels around 60,000 The warranty of monocrystalline and polycrystalline frances is 15 years and 25 years respectively from the data of installation back panel is identified by a unique photomoltaic module (PV module). These panels are installed for both domestic (houses) and commercial (office, hotels, hostels etc) usage. The installations are done by authorised rendors who also are the distributors of the hands. The rendon or distributors are identified by their unique TIN number, name, address, contact details. The usess are identified by their House office numbers, addres, The capacity of the panels depends on the number of member in the installed place. So, there can be multiple installation of panels from different rendors in the same place.

- 1) hist the rendors with most installations in demestric
- (a) list the place name with highest capacity hand installed.
- @ Display the area where monocrystalline hand are installed.

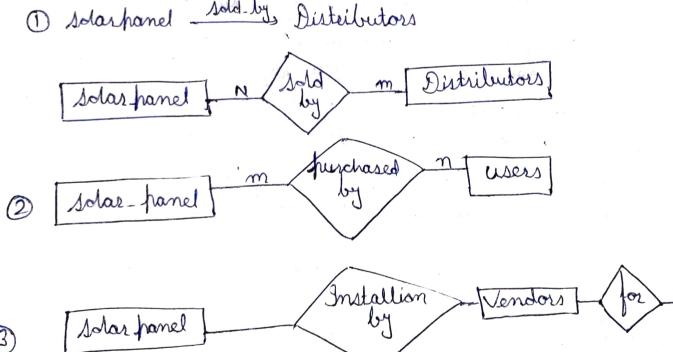
- 1 List the place where both type of hands are installed are and calculate the installation charges.
- (5) List the details of nendor and hand that is the oldest installation.
- © Find the average sales of both type of hands in only commerical places.

* Identification of entity.

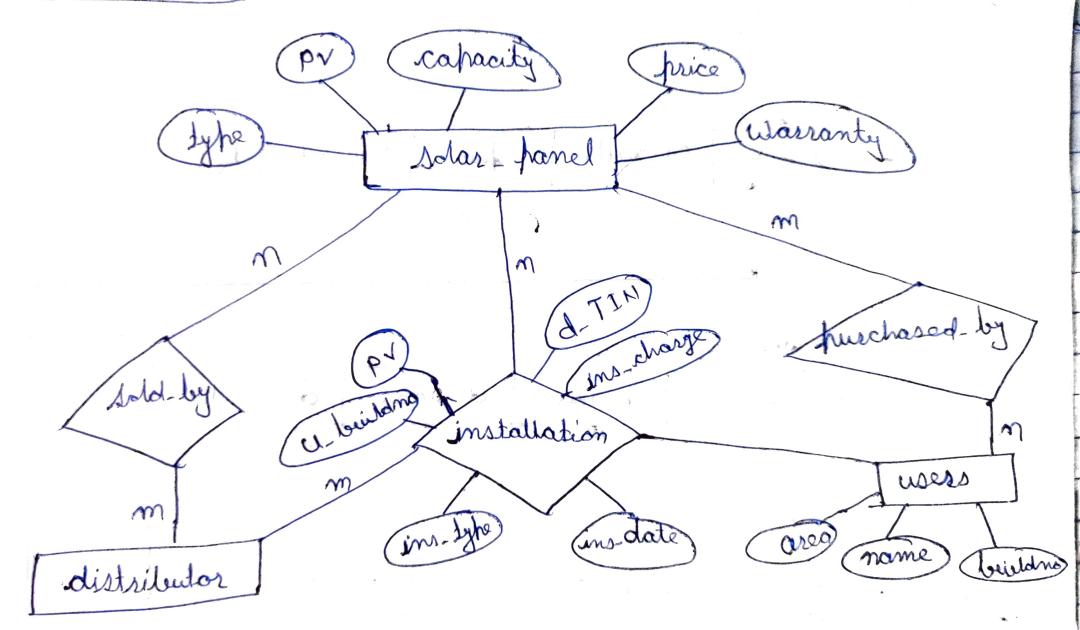
- 1 solar panel
- 2 Distributor
- 3 User to the second of the se

* Relationships and cardinalities:

1 solar hand _ sold by Distributors



ER-Diagram



* Schema - diagram: PV capacity Warranty hice type distributor d-addr d-contact d_TIN d_mame users Ju-buildro y_area U-name sold-ly pV doTIN purchased - by 4- buildno installatation 14. buildno d. TIN ins-charge ins-type ins-date