Files summary

Below are the files used and developed along with a brief information about them. Due to random values being assigned, I have considered few assumptions based on the generated data, which might be out of scope of the assignment.

1. Number of panel installations are randomly assigned between the range 1-25.
2. Some bases might not have teams with all 3 skill sets. Affected customers are highlighted.
3. There is a scenario where some teams are available after the expected installation dates of the customer. In such cases, the teams with the closest availabilities are picked, however further comments are added.
4. Finally, the teams having availability and capacity are directly assigned to each customer.
5. Additional fields are provided, such as expected installation date, earliest possible installation date and comments along with the customer id and team id.

Additional information –

- Geo locations of German cities were selected randomly from list of cities from the below mentioned source.
- Comments are added to the SQL scripts.
- Since the values are randomly generated, the scripts would possibly give different results when run on another machine. If needed, I can later provide an extract of the tables.

SQL Files –

1. SQL_create.sql – Database and table creation script.
2. SQL_insert.sql – Script to insert data into the three tables, including updates to insert random dates and other variables.
3. dist_base_cust.sql – main analysis script used to assign the teams from the nearest base to the customer.

Additional Files –

1. geolocations of german cities.xlsx – File from which random german cities were picked for the customers and bases. Data obtained from https://simplemaps.com/data/de-cities .
2. enpal_test.csv – Result obtained after running dist_base_cust.sql
3. enpal_test.twbx – Tableu file with a table report based on the final output.

Tableau public link –

https://public.tableau.com/app/profile/abhishek.kurup/viz/enpal_test/EnpalTeamassignments?publish=yes