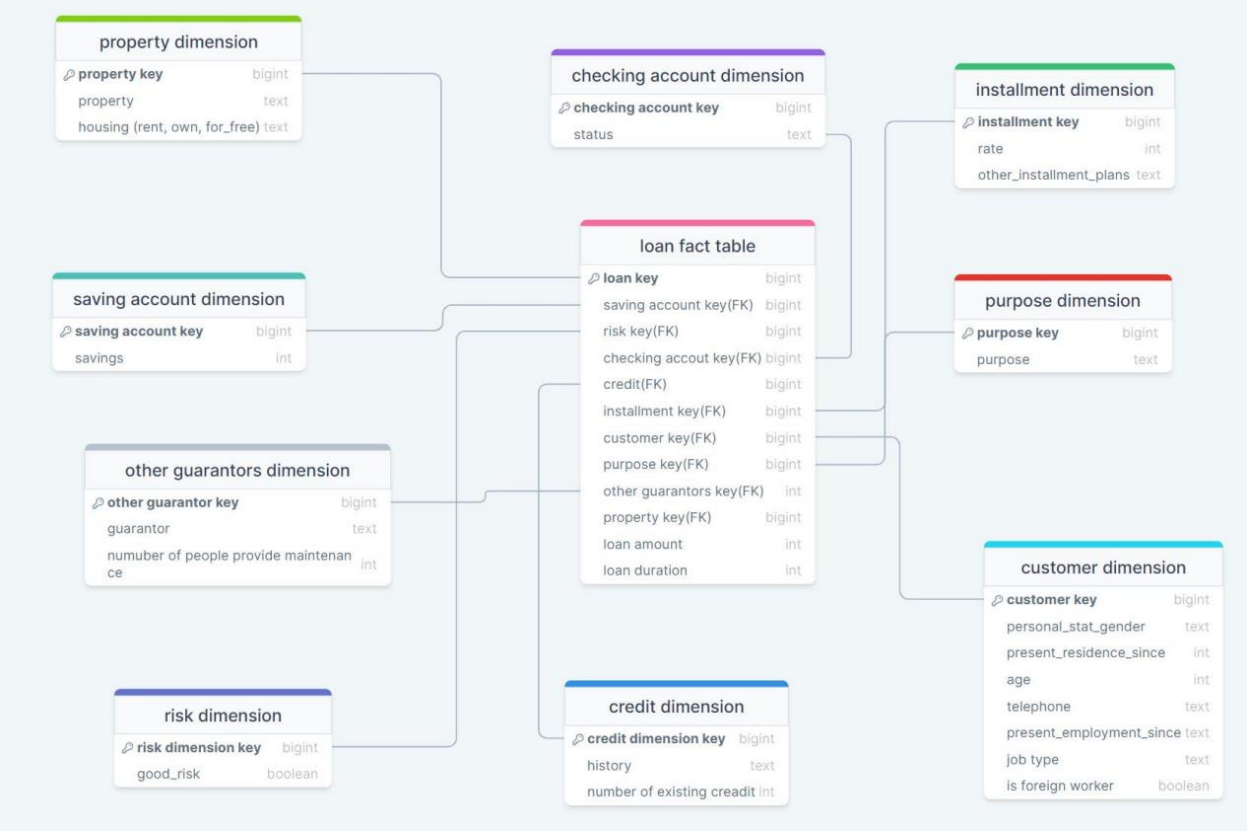
schematic staging plan



All the data from the same data source: German Credit Scoring Data

https://www.kaggle.com/datasets/elsnkazm/german-credit-scoring-data

(discussed with TA, single abundant data sources is acceptable)

the source data is well organized (binning, label) already, but I just carried out data cleaning procedure for the raw data. From the data source description, I grabbed the valid values/range for each column and applied the filters (made by valid values) to them, for example:

```
# remove out range value other_installment_plans
other_installment_plans_values=['none', 'bank', 'store']
df=df[df['other_installment_plans'].isin(other_installment_plans_values)]
```

And delete missing data row (if any). I deleted them because there were enough data:

Check for null value

```
df=df[~df.isnull().any(axis=1)]
```

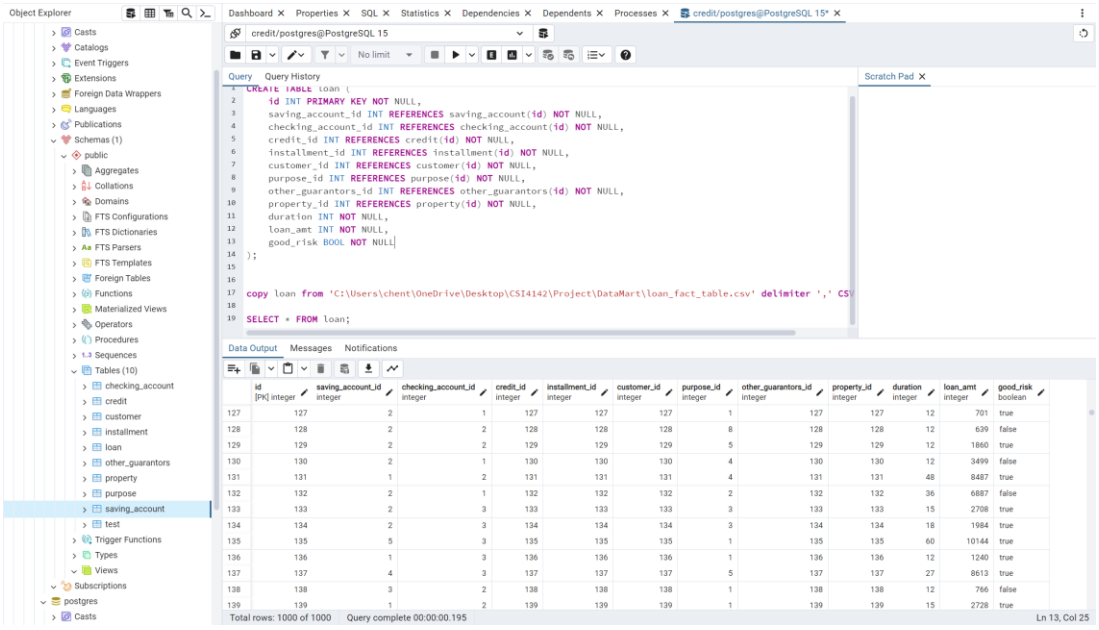
[348] ✓ 0.0s

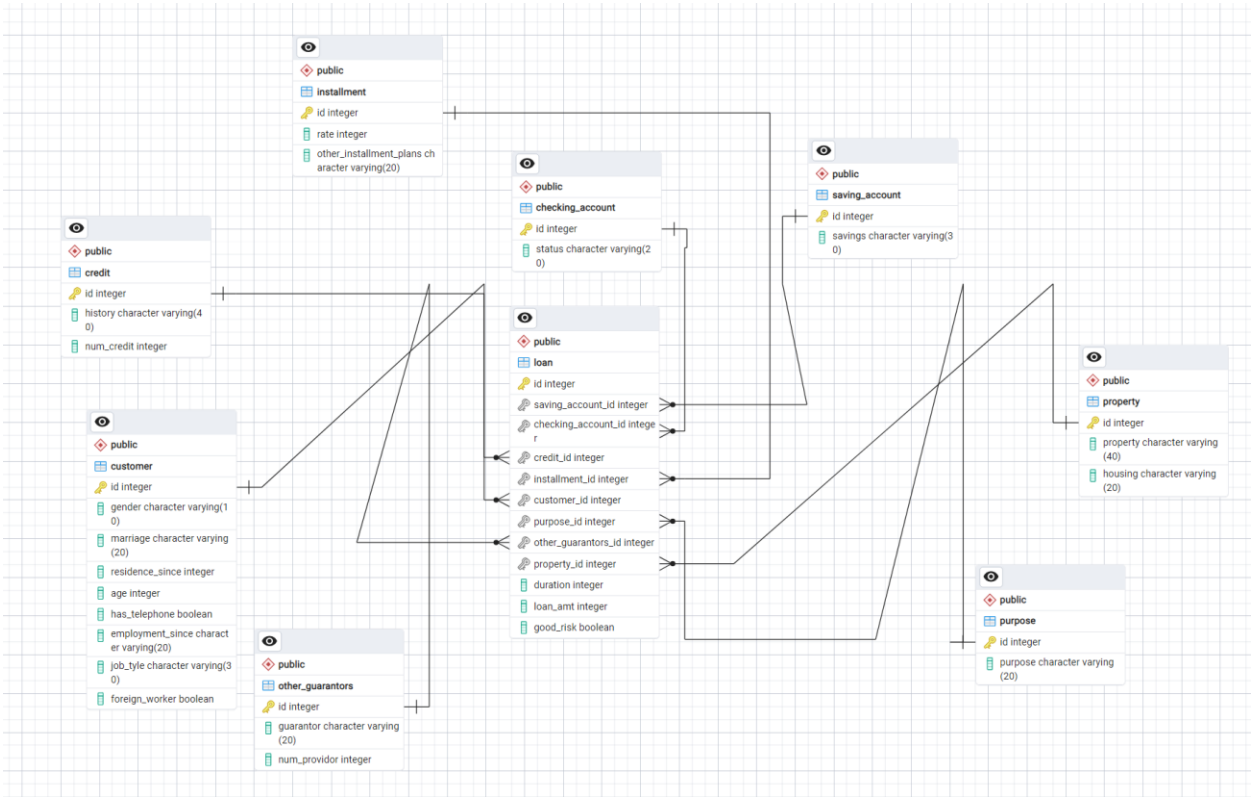
I also separate some columns to better organize the data in data mart:

```
df[['gender','marriage']]=df['personal_stat_gender'].str.split(':',expand=True)
df=df.drop('personal_stat_gender',axis=1)
```

[9] ✓ 0.0s

After creating and relating all the dimensions and fact table, I created database instance and load the data into it:




public
installment
id integer
rate integer
other_installment_plans character varying(20)
public
checking_account
id integer
status character varying(20)
public
saving_account
id integer
savings character varying(30)
public
credit
id integer
history character varying(40)
num_credit integer
public
loan
id integer
saving_account_id integer
checking_account_id integer
credit_id integer
installment_id integer
customer_id integer
purpose_id integer
other_guarantors_id integer
property_id integer
duration integer
loan_amt integer
good_risk boolean
public
property
id integer
property character varying (40)
housing character varying (20)
public
customer
id integer
gender character varying(10)
marriage character varying (20)
residence_since integer
age integer
has_telephone boolean
employment_since character varying(20)
job_tyle character varying(30)
foreign_worker boolean
public
purpose
id integer
purpose character varying (20)
public
other_guarantors
id integer
guarantor character varying (20)
num_providor integer