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CS1555 HW2

1)

* **CUSTOMERS (SSN, fname, lname, cell\_pn, home\_pn, street, city, zip, state, free\_min, dob)**
  + Primary Key: cell\_pn
  + Alternate Key(s): SSN
  + Foreign Key(s): (home\_pn, fname, lname, street, city, zip, state)🡪 DIRECTORY (pn, fname, lname, street, city, zip, state)
    - Assumption: every possible customer is in the directory.
* **RECORDS (from\_pn, to\_pn, start\_timestamp, duration, type)**
  + Primary Key: (from\_pn, to\_pn, start\_timestamp)
  + Alternate Key(s):
  + Foreign Key(s):
* **STATEMENTS (cell\_pn, start\_date, end\_date, total\_minutes, total\_SMS, amount\_due)**
  + Primary Key: cell\_pn
  + Alternate Key(s):
  + Foreign Key(s): cell\_pn 🡪 CUSTOMERS(cell\_pn)
* **PAYMENTS (cell\_pn, paid\_on, amount\_paid)**
  + Primary Key: (cell\_pn, paid\_on)
  + Alternate Key(s):
  + Foreign Key(s): cell\_pn 🡪 CUSTOMERS(cell\_pn)
* **DIRECTORY (pn, fname, lname, street, city, zip, state)**
  + Primary Key: (pn, fname, lname, street, city, zip, state)
    - Assumptions: there are no 2 people who have the same fname/lname and live at the same address. The same person can have multiple pn’s. 2 people can share the same pn.
  + Alternate Key(s):
  + Foreign Key(s):