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CS 1555

Assignment #2: Relational Model & SQL DDL

1. DIRECTORY(pn, fname, lname, street, city, zip, state)

PK(pn)

CUSTOMERS (SSN, fname, lname, dob, cell\_pn, street, city, zip, state, free\_min)

PK (cell\_pn); UQ(fname, lname)

FK(cell\_pn) 🡪 DIRECTORY(cell\_pn)

(Assuming there aren’t customers with the same first and last name for the unique key constraint)

RECORDS (from\_pn, to\_pn, start\_timestamp, duration, type)

PK(from\_pn, start\_timestamp)

FK(from\_pn) 🡪 DIRECTORY(pn)

STATEMENTS(cell\_pn, start\_date, end\_date, total\_minutes, total\_SMS, amount\_due)

PK(cell\_pn)

FK(cell\_pn) 🡪 CUSTOMERS(cell\_pn)

(Assuming there aren’t multiple statements in the same month for the same customer, for the primary key constraint)

PAYMENTS(cell\_pn, paid\_on, amount\_paid)

PK(cell\_pn, paid\_on)

FK(cell\_pn) 🡪 CUSTOMERS(cell\_pn)

(Assuming the same customer doesn’t make multiple payments at the same time)