**Assignment 1B: AirTnT Normalisation**

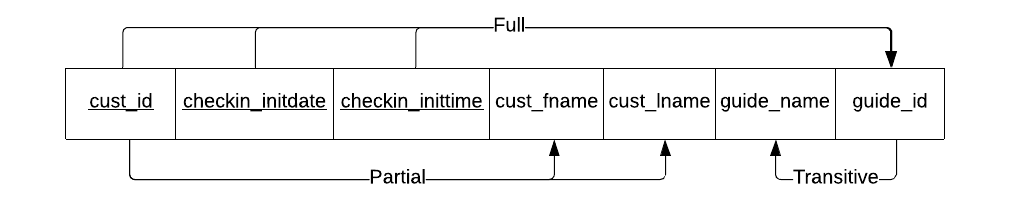
**Form 1: AirTnT Activity Sheet**

**UNF**

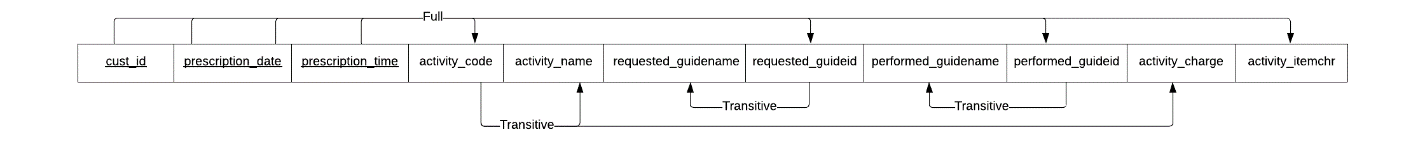
CHECK-IN(cust\_id, cust\_fname, cust\_lname, checkin\_initdate, checkin\_inittime, guide\_name, guide\_id, (activity\_code, activity\_name, requested\_guidename, requested\_guideid, performed\_guideid, performed\_guidename, prescription\_date, prescription\_time , activity\_charge, activity\_itemchr, (item\_code, item\_desc, item\_quant, item\_charge))

**1NF**

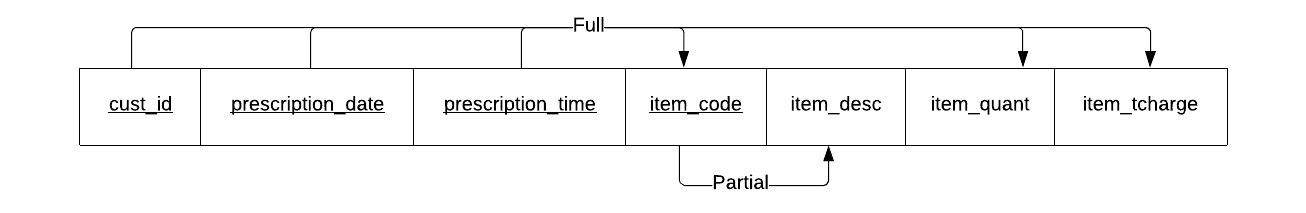
CHECK-IN (cust\_id, checkin\_initdate, checkin\_inittime, cust\_fname, cust\_lname, guide\_name, guide\_id)

* 

PRESCRIPTION (cust\_id, prescription\_date, prescription\_time, activity\_code, activity\_name, requested\_guidename, requested\_guideid, performed\_guidename, performed\_guideid, activity\_charge, activity\_itemchr)

* 

ITEM-LINE (cust\_id, prescription\_date, prescription\_time, item\_code, item\_desc, item\_quant, item\_tcharge)

* 

**2NF**

CHECK-IN (*cust\_id*, checkin\_initdate, checkin\_inittime, guide\_name, guide\_id)

* guide\_id → guide\_name (TRANSITIVE)

CUSTOMER (cust\_id, cust\_fname, cust\_lname)

* cust\_id → cust\_fname, cust\_lname (FULL)

PRESCRIPTION (cust\_id, prescription\_date, prescription\_time, activity\_code, activity\_name, requested\_guidename, requested\_guideid, performed\_guidename, performed\_guideid, activity\_charge, activity\_itemchr)

* activity\_code → activity\_name, activity\_charge (TRANSITIVE)
* requested\_guideid → requested\_guidename (TRANSITIVE)
* performed\_guideid → performed\_guidename (TRANSITIVE)

ITEM-LINE (cust\_id, prescription\_date, prescription\_time, *item\_code*, item\_quant, item\_tcharge)

ITEM (item\_code, item\_desc)

* item\_code → item\_desc (FULL)

**3NF**

CHECK-IN (*cust\_id*, checkin\_initdate, checkin\_inittime, *guide\_id*)

GUIDE (guide\_id, guide\_name)

* guide\_id → guide\_name (FULL)

CUSTOMER (cust\_id, cust\_fname, cust\_lname)

PRESCRIPTION (cust\_id, prescription\_date, prescription\_time, *activity\_code*, *requested\_guideid, performed\_guideid*, activity\_itemchr)

* **Note:** requested\_guideid and performed\_guideid references a guide\_id from GUIDE. No new entities need to be created from the transitive dependencies from 2NF for PRESCRIPTION.

ACTIVITY (activity\_code, activity\_name, activity\_charge)

* activity\_code → activity\_name, activity\_charge (FULL)

ITEM-LINE (cust\_id, prescription\_date, prescription\_time, *item\_code*, item\_quant, item\_tcharge)

ITEM (item\_code, item\_desc)

**Form 2: AirTnT Housekeeper Assignment Details**

**Initial Assumption**

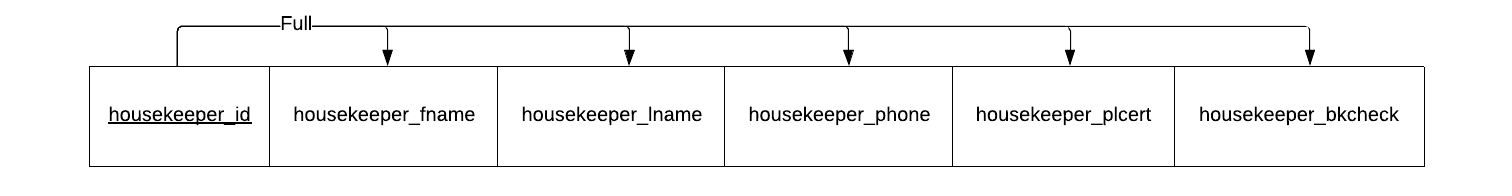
* A housekeeper cannot be assigned to two unique houses in one day.
  + e.g. A housekeeper with ID = 1234 **cannot** be assigned to a house (ID = 001) on 1/1/2019, then proceed to be reassigned to a house (ID = 002) on the same date.

**UNF**

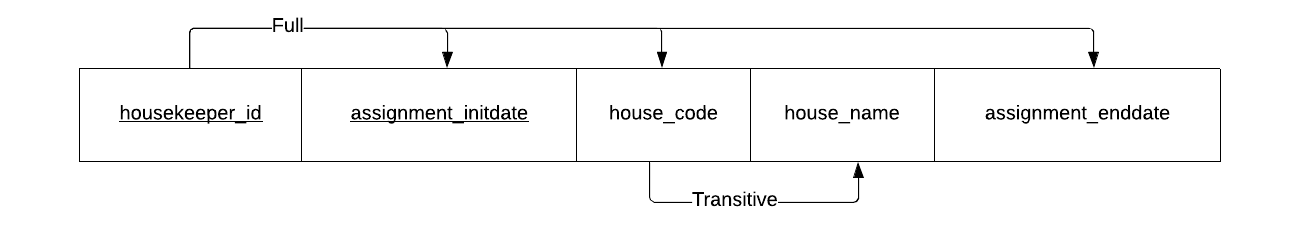
HOUSEKEEPER (housekeeper\_id, housekeeper\_fname, housekeeper\_lname, housekeeper\_phone, housekeeper\_plcert, housekeeper\_bkcheck, (house\_code, house\_name, assignment\_initdate, assignment\_enddate))

**1NF**

HOUSEKEEPER (housekeeper\_id, housekeeper\_fname, housekeeper\_lname, housekeeper\_phone, housekeeper\_plcert, housekeeper\_bkcheck)

*  I am assuming that the contact phone may be a house phone and so may be shared by multiple housekeepers (that live in the same house). Hence, there is no transitive dependency of say (housekeeper\_fname, housekeeper\_lname) → housekeeper\_phone.

ASSIGNMENT (housekeeper\_id, assignment\_initdate, house\_code, house\_name, assignment\_enddate))

* 

**2NF**

HOUSEKEEPER (housekeeper\_id, housekeeper\_fname, housekeeper\_lname, housekeeper\_phone, housekeeper\_plcert, housekeeper\_bkcheck)

ASSIGNMENT (housekeeper\_id, assignment\_initdate, *house\_code*, assignment\_enddate))

HOUSE (house\_code, house\_name)

* house\_code → house\_name (FULL)

**3NF**

HOUSEKEEPER (housekeeper\_id, housekeeper\_fname, housekeeper\_lname, housekeeper\_phone, housekeeper\_plcert, housekeeper\_bkcheck)

ASSIGNMENT (housekeeper\_id, assignment\_initdate, *house\_code*, assignment\_enddate))

HOUSE (house\_code, house\_name)