AirTnT: Activity Sheet-

UNF

Customer(cust_id, cust_name, date_time, tour_guide_id, guide_firstname, guide_lastname (activity_code, activity_name, req_by, perf_by, cust_charge (item_code, description, quantity, item_charge), total_charge))

1NF

Customer (<u>cust_id</u>, cust_name, *date_time*, main_tour_guide)

cust_id -> cust_name, date_time, tour_guide_id FULL

Activity(<u>activity_code</u>, <u>date_time</u>, tour_guide_id, tour_guide_id, guide_firstname, guide_lastname, activity_name, req_by, perf_on, perf_by, cust_charge)

activity_code, date_time -> tour_guide_id, req_by, perf_on, perf_by FULL

activity_code -> activity_name, cust_charge PARTIAL

Additional-Item(<u>item_code</u>, <u>activity_code</u>, description, quantity, item_charge, total_charge)

item_code, activity_code -> quantity, item_charge FULL

item_code -> description PARTIAL

item_charge -> total_charge TRANSITIVE

tour_guide_id -> tour_guide_id, guide_firstname, guide_lastname TRANSITIVE

2NF

Customer (<u>cust_id</u>, cust_name, *date_time*, main_tour_guide)

Activity (<u>activity_code</u>, <u>date_time</u>, _by, perf_on, tour_guide_id, req perf_by)

Activity-Charge (<u>activity_code</u>, activity_name, cust_charge)

activity_code -> activity_name, cust_charge FULL

Additional-Item (<u>item_code</u>, <u>activity_code</u>, quantity, item_charge)

Item-Description (<u>item_code</u>, description)

item_code -> description FULL

3NF

Customer (<u>cust_id</u>, cust_name, *checkin_date_time*, main_tour_guide)

Activity (<u>activity_code</u>, <u>date_time</u>, tour_guide_id, req_by, perf_on, perf_by)

Tour-Guide (<u>tour_guide_id</u>, tour_guide_id, guide_firstname, guide_lastname)

Activity-Charge (<u>activity_code</u>, activity_name, cust_charge)

Additional-Item (<u>item_code</u>, <u>activity_code</u>, quantity, item_charge)

Item-Description (<u>item_code</u>, description)

Total-Price (<u>item_charge</u>, total_charge)

Air TnT: Housekeeper Assignment Details:

UNF

Housekeeper (keeper_id, first_name, last_name, phone, police_cert, bankruptcy_check (house_code, house_name, date_assigned, date_comp))

1NF

Housekeeper (<u>keeper_id</u>, first_name, last_name, phone, police_cert, bankruptcy_check)

keeper_id -> first_name, last_name, phone, police_cert, bankruptcy_check FULL

House-Assignment (<u>house_code</u>, <u>keeper_id</u>, house_name, date_assigned, date_comp)

house_code, keeper_id -> date_assigned, date_comp FULL

house_code -> house_name PARTIAL

2NF

Housekeeper (<u>keeper_id</u>, first_name, last_name, phone, police_cert, bankruptcy_check)

House-Assignment (<u>house_code</u>, <u>keeper_id</u>, date_assigned, date_comp)

House (<u>house_code</u>, house_name)

house_code -> house_name FULL

3NF

Housekeeper (<u>keeper_id</u>, first_name, last_name, phone, police_cert, bankruptcy_check)

House-Assignment (<u>house_code</u>, <u>keeper_id</u>, date_assigned, date_comp)

House (<u>house_code</u>, house_name)

Collected 3NF Relations:

Customer (cust_id, cust_name, *date_time*, main_tour_guide)

Activity (activity_code, date_time, tour_guide_id, req_by, perf_on, perf_by)

Activity-Charge (activity_code, activity_name, cust_charge)

Tour-Guide (tour_guide_id, tour_guide_id, guide_firstname, guide_lastname)

Additional-Item (item_code, activity_code, quantity, item_charge)

Item-Description (item_code, description)

Total-Price (item_charge, total_charge)

Housekeeper (keeper_id, first_name, last_name, phone, police_cert, bankruptcy_check)

House-Assignment (house_code, keeper_id, date_assigned, date_comp)

House (house_code, house_name)