ACTIVITYSHEET DETAILS

UNF

CHECK_IN (custid,custname, checkintime, main_tguideid, main_tguide_name, (activitycode,activityname, prescribe_tguideid, prescribe_tguide_name, comp_tguideid, comp_tguide_name, activitytime, activitycost,total_all_itemcharge,(itemcode,description, quantity, total_itemcharge)))

1NF

CHECK_IN (custid, checkintime,custname,main_tguideid, main_tguide_name)

Full dependency: custid,checkintime -> main_tguideid

Partial dependency: custid -> custname

Transitive dependency: main_tguideid -> main_tguide_name

ACTIVITY_CONDUCT (custid, checkintime,activitytime, activitycode,activityname, prescribe_tguideid, prescribe_tguide_name, comp_tguideid, comp_tguide_name, activitycost, ,total_all_itemcharge)

Full dependency: custid, checkintime,activitytime -> prescribe_tguideid, comp_tguideid,activitycode, total_all_itemcharge

Transitive dependency: activitycode -> activityname, activitycost

                                     prescribe_tguideid -> prescribe_tguide_name

                                     comp_tguideid -> comp_tguide_name

HAS _ITEM (custid, checkintime,activitytime,itemcode,description, quantity, total_itemcharge)

Full dependency: custid, checkintime,activitytime,itemcode -> quantity, total_itemcharge

Partial dependency: itemcode -> description

2NF

CUSTOMER (<u>custid</u>,custname)

Full dependency: custid -> custname

CHECK_IN (<u>custid</u>, <u>checkintime</u>, main_tguideid, main_tguide_name)

Full dependency: custid, checkintime -> main_tguideid

Transitive dependency: main_tguideid -> main_tguide_name

ACTIVITY_CONDUCT (<u>custid</u>, <u>checkintime</u>,<u>activitytime</u>, activitycode,activityname, prescribe_tguideid, prescribe_tguide_name, comp_tguideid, comp_tguide_name, activitycost,total_all_itemcharge)

Full dependency: custid, checkintime,activitytime -> prescribe_tguideid, comp_tguideid,activitycode, total_all_itemcharge

Transitive dependency: activitycode -> activityname, activitycost

 prescribe_tguideid -> prescribe_tguide_name

 comp_tguideid -> comp_tguide_name

HAS _ITEM (<u>custid</u>, <u>checkintime</u>,<u>activitytime</u>,<u>itemcode</u>,quantity, total_itemcharge)

Full dependency: custid, checkintime,activitytime,itemcode -> quantity, total_itemcharge

ITEM (<u>itemcode</u>,description)

Full dependency: itemcode -> description

3NF

CUSTOMER (<u>custid</u>,custname)

Full dependency: custid -> custname

CHECK_IN (<u>custid, checkintime</u>, main_tguideid)

Full dependency: custid,_checkintime -> main_tguideid

TOURGUIDE(<u>tguideid</u>,tguide_name)

Full dependency: tguideid -> tguide_name

ACTIVITY_CONDUCT (<u>custid, checkintime,activitytime</u>, activitycode,total_all_itemcharge,presc_tguideid, comp_tguideid)

Full dependency: custid,_checkintime,activitytime -> prescribe_tguideid, comp_tguideid, activitycode, total_all_itemcharge

ACTIVITY(<u>activitycode</u>, activityname, activitycost)

Full dependency: activitycode -> activityname, activitycost

HAS _ITEM (<u>custid, checkintime,activitytime,itemcode</u>,quantity, total_itemcharge)

Full dependency: custid, checkintime,activitytime,itemcode -> quantity, total_itemcharge

ITEM (<u>itemcode</u>,description)

Full dependency: itemcode -> description

HOUSHARE-ASSIGNMENT DETAILS

UNF

HOUSEKEEPER (hkeeperid,fname,lname,pnumber,pcc_code,is_bankcrupt,(hsarecode,hsharename,date_assigned, date_compd))

1NF

HOUSEKEEPER (hkeeperid,fname,lname,pnumber,pcc_code,is_bankcrupt)

Full dependency: hkeeperid -> fname,lname,pnumber,pcc_code,is_bankcrupt

HAS_TASK (hsarecode ,date_assigned, hkeeperid , hsharename,date_compd)

Full dependency: hkeeperid ,hsarecode, hsharename,date_assigned -> date_compd

Partial dependency: hsarecode -> hsharename

2NF

HOUSEKEEPER (hkeeperid,fname,lname,pnumber,pcc_code,is_bankcrupt)

Full dependency: hkeeperid -> fname,lname,pnumber,pcc_code,is_bankcrupt

HAS_TASK (hsarecode ,date_assigned, hkeeperid ,date_compd)

Full dependency: hsarecode, date_assigned -> date_compd, hkeeperid

HOUSESHARE(hsarecode, hsharename)

Full dependency: hsarecode -> hsharename

3NF

HOUSEKEEPER (hkeeperid,fname,lname,pnumber,pcc_code,is_bankcrupt)

Full dependency: hkeeperid -> fname,lname,pnumber,pcc_code,is_bankcrupt

HAS_TASK (hsarecode ,date_assigned, hkeeperid ,date_compd)

Full dependency: hsarecode, date_assigned -> date_compd, hkeeperid

HOUSESHARE(hsarecode, hsharename)

Full dependency: hsarecode -> hsharename

Consolidation

CUSTOMER (<u>custid</u>,custname)

CHECK_IN (<u>custid</u>, <u>checkintime</u>, main_tguideid)

TOURGUIDE(<u>tguideid</u>,tguide_name)

ACTIVITY_CONDUCT (<u>custid</u>, <u>checkintime</u>,<u>activitytime</u>, activitycode,total_all_itemcharge,prescribe_tguideid, comp_tguideid)

ACTIVITY(<u>activitycode</u>, activityname, activitycost)

HAS_EXTRA_ITEM (<u>custid</u>, <u>checkintime</u>,<u>activitytime</u>,<u>itemcode</u>,quantity, total_itemcharge)

ITEM (<u>itemcode</u>,description)

HOUSEKEEPER (<u>hkeeperid</u>,fname,lname,pnumber,pcc_code,is_bankcrupt)

HOUSEKEEPER_ASSIGNMENT (<u>hsarecode</u> ,<u>date_assigned</u>, hkeeperid ,date_compd)

HOUSESHARE(<u>hsarecode</u>, hsharename)

Logical Design