Project Report
Databse Management System

Group_7

April 21, 2015

Relations and their Functional Dependencies

Functional Dependencies for all the relations:

    1- **Guest**(<u>guest_id</u> , entity_time)
FD- guest_id → entity_time

    2- **Company**(<u>guest_id</u>, cname, location)
FD- guest_id → cname
guest_id → location

    3- **Company_Members**(<u>guest_id, name</u>, age, designation)
FD- guest_id , name → age
guest_id, name → designation

    4- **Family**(<u>guest_id</u> , Head_Ssn , Address, Mobile_no. , Adults , Children)
FD- guest_id → Head_Ssn
guest_id → Mobile_no.
guest_id → Adults
guest_id → Children

    5- **Family_Members** (<u>guest_id</u> , <u>name</u> , age)
FD- guest_id , name → age

    6- **Allot**(<u>guest_id</u> , <u>room_id</u> , Check_in_date , Check_out_date , Amount)
FD- guest_id , room_id → Check_in_date , Check_out_date , Amount

    7- **Room** (<u>room_no</u> , type, rate, status_occupied)
FD- room_no → type, rate, status_occupied

    8- **Facility** (facility_id , no_of_hours , rate , type)
FD- facility_id → no_of_hours , rate , type

    9- **Food**(<u>product_id</u> , rate , type , name)
FD- product_id → rate , type , name

    10- **Uses**(<u>guest_id, facility_id</u> , quantity_used)
FD- guest_id , facility_id → quantity_used

    11- **Orders**((<u>guest_id , product_id , date_of_time , time</u>) , quantity)
FD- guest_id , product_id , date_of_time → quantity

    12- **Bill**(guest_id , amount, paying_method, paying_date)
FD- guest_id → amount, paying_method, paying_date