Course Project

Course CSI2132 Databases I

Academic Year 2022-23

Instructor Wail Mardini

Group Members Sara Rigotti

Arine Karapetyan

Samih Karroum

Submission Date 12.04.2023

**DBMS**

/\* Indexes: \*/

/\* This index can be used by customers (users) to efficiently find all rooms currently available \*/

/\* Also, employees can use this index to find all rooms currently booked/occupied. \*/

**create** index room\_status **on** rooms(status);

/\* This index is intended for efficiently locating the information of a specific customer. \*/

/\* Employees can use it to pull up the profile of a customer \*/

**create** index customerID\_index **on** customers(customer\_ID);

/\* This index locates the information of a specific employee given the ID number. \*/

/\* Managers can use it to pull up the profile of an employee and check their roles and hotel assignments. \*/

**create** index employeeID\_index **on** employees(employee\_ID);

/\* This index locates the information of all hotels in a given location or area. \*/

/\* This index is intended mostly for users so they can see all hotels in a required town/city, province, or street. \*/

**create** index hotelarea\_index **on** hotel(hotel\_adrs);

/\* This index locates the information of all hotels of a given star category, allowing users to efficiently find all hotels of a desired rating. \*/

**create** index star\_index **on** hotel(star\_category);

/\* Views: \*/

/\* 1) Number of rooms available per area \*/

**create view** rooms\_avail **as**

**select** **count** (\*)

**from** rooms

**where** status = ‘available’

**group by** hotel\_adrs **in** (**select** hotel\_adrs

**from** hotel);

/\* group by area could be more defined…\*/

/\* 2) Capacity of all rooms in a specific hotel \*/

**create view** *capacity* **as**

**select** room\_cpsty

**from** rooms

**group by** hotel\_ID;

**Programming Languages**

**DDLS**

**Installation Instructions**