

**Khulna University of Engineering and Technology, Khulna**

**Department of Electronics and Communication Engineering**

**Course No: CSE-3210**

**Course Title: Database System Laboratory**

**3rd Year 2nd Term**

**Report on: Hotel Management System using SQL**

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Introduction:

A database is a structured collection of data that is stored and accessed electronically through a computer system. Databases that are more sophisticated are frequently created utilizing formal design and modeling approaches.

To record and analyze data, the Database Management System (DBMS) is the software that interacts with end users, applications, and the database itself. The DBMS software also includes the fundamental features required to administer the database. A database system is the combination of the database, the DBMS, and the related applications. For my Hotel Management System project, I employed the ‘Oracle' DBMS. Oracle is a relational database management system of the fourth generation. In general, a Database Management System (DBMS) must be capable of consistently managing a significant quantity of data in a multi-user environment, allowing several users to access the same data at the same time. All of this must be achieved while providing the user with great performance.

Short Description of my project:

I have used six entities in my Hotel Management system project. Each entity has different primary key and some of entity has foreign key.

Visitor:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| code | ff\_name | ll-name | contact | Gender | Booking\_date | Leave\_date |

Hotel\_employee:

|  |  |  |
| --- | --- | --- |
| Emp\_id | name | Allocated\_for |

Employee\_status:

|  |  |  |
| --- | --- | --- |
| Emp\_st\_id | Work\_details | Job\_dept |

Room\_quality:

|  |  |  |
| --- | --- | --- |
| Room\_no | Room\_status | member |

Transaction:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Bill\_id | code | Bill\_date | Total\_bill | Payment\_method |

Food:

|  |  |  |  |
| --- | --- | --- | --- |
| Order\_no | Order\_status | code | Food\_name |

Pk- FK-

ER DIAGRAM:

has

food

Employee\_status

1

visitor

N N

has

Hotel\_employee

Room\_quality

N N

has

has

transaction

1 1

has

1

Primary key

Foreign key

Entity

Relation

me

FIG: ER DIAGRAM OF HOTEL MANAGEMENT SYSTEM

Database Schema:

|  |
| --- |
| Hotel\_employee |
| pk Emp\_id |
| name |
| fk Allocated\_for |

|  |
| --- |
| Employee\_status |
| Pk,fk Emp\_st\_id |
| pk Works\_details |
| Job\_dept |

|  |
| --- |
| Transaction |
| pk Bill\_id |
| fk Code |
| Bill\_date |
| Total\_bill |
| Payment\_method |

|  |
| --- |
| VISITOR |
| pk Code |
| ff-name |
| ll-name |
| Booking date |
| Leave\_date |
| Contact |

|  |
| --- |
| Room\_quality |
| pk Room\_no |
| Room\_quality |
| fk member |

|  |
| --- |
| Food |
| pk Order-no |
| Order-date |
| fk code |
| Food-name |