**NIIT UNIVERSITY**

**NEEMRANA 301705, Dist. Alwar (Rajasthan)**

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Mid report

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| **Project Title:** Database of Travel Portal |

**Course Name:** Database Management System

**Course Code:** CS231

**Year:** 2nd **Semester:** 4th

**Session:** 2017-18 **Discipline:** CSE

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**PROJECT DESCRIPTION**

We are building a database for travel portal. We came up with an idea of how the travel agency should look like. In this report, we are focusing on the ER Diagram, relational table, and the functional dependencies.

**ER Diagram**

* **Entities used-**

1. **Activities:**

**Attributes-** ACTIVITY\_ID(Primary key), LOCATION\_ID(Foreign key), A\_DESCRIPTION, A\_NAME.

1. **Location:**

**Attributes-** LOCATION\_ID(Primary key), L\_NAME.

1. **Transportation:**

**Attributes-** TRANSPORTATION\_ID(Primary key), T\_TYPE.

1. **Stay:**

**Attributes-** STAY\_ID(Primary key), LOCATION\_ID, S\_PRICE, S\_NAME.

1. **Package:**

**Attributes-** PACKAGE\_ID(Primary key), P\_NAME.

1. **Customer:**

**Attributes-** CUSTOMER\_ID(Primary key), C\_NAME, C\_NUMBER, C\_EMAIL, C\_SEX, C\_ADDRESS.

Here, C\_ADDRESS is a composite attribute and contains two more attributes in it : C\_ADDRESS(CITY, STREET\_NAME).

1. **Facilities:**

**Attributes-** FACILITY\_ID(Primary key), F\_GYM, F\_SPA, F\_SPORTSCOMPLEX.

1. **Amenities:**

**Attributes-** AMENITY\_ID(Primary key), A\_ELECTRICITY, A\_ROOMSERVICE, A\_WIFI, A\_BEDandBREAKFAST.

1. **Hotels:**

**Attributes-** HOTEL\_ID(Primary key), H\_RATING, H\_NAME, H\_AVAILABILITY.

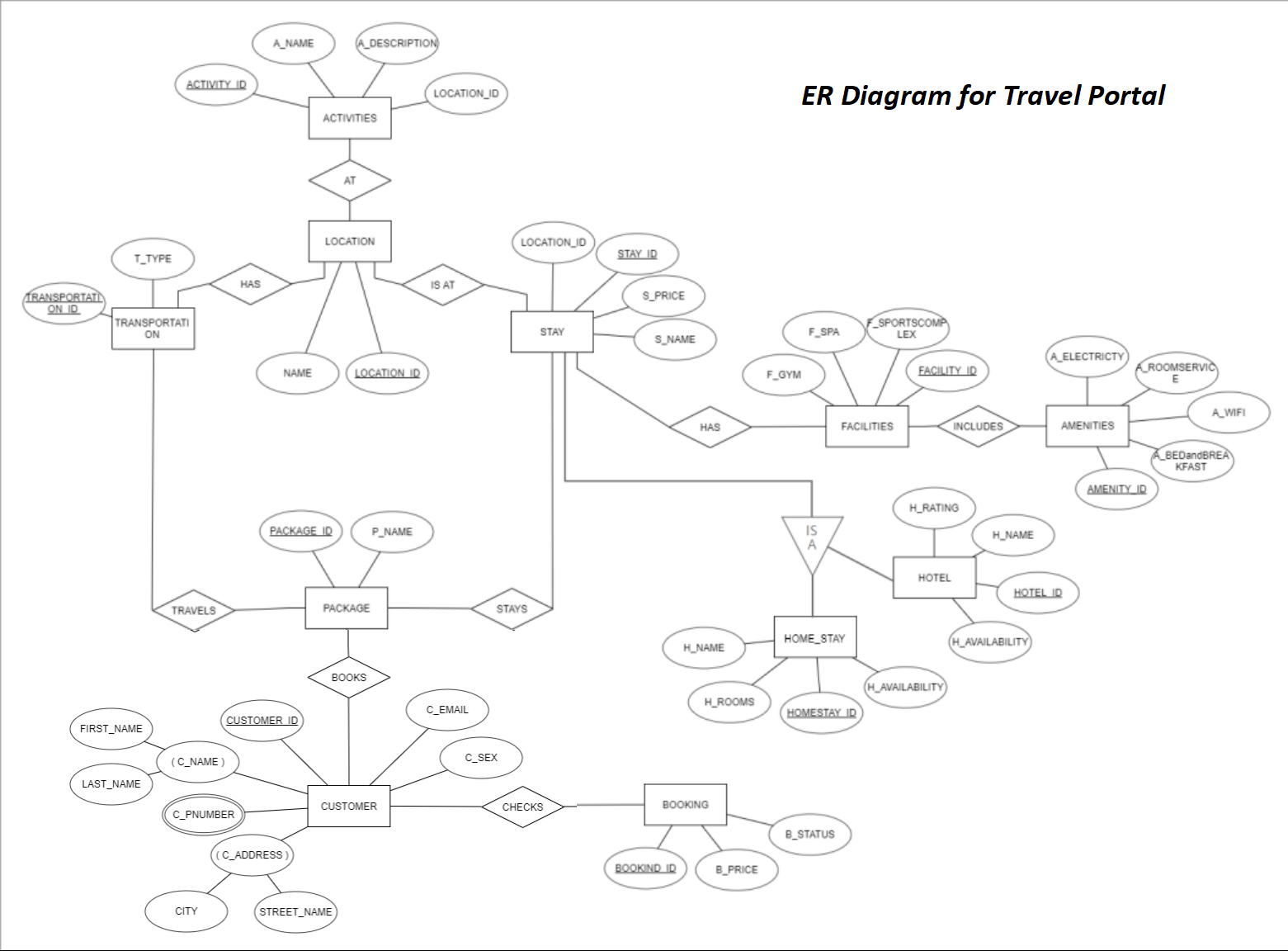
1. **Home stay:**

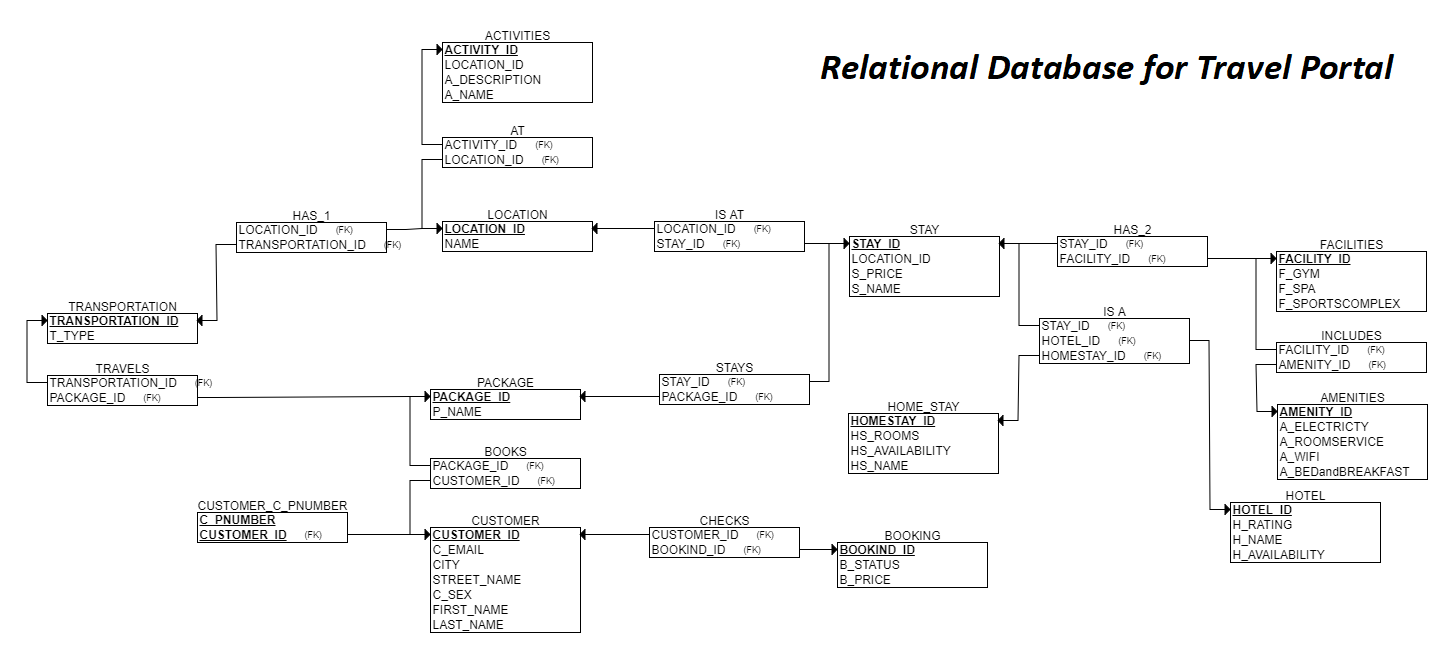
**Attributes**- HOMESTAY\_ID(Primary key), HS\_ROOMS, HS\_AVAILABILITY, HS\_NAME.

1. **Booking:**

**Attributes-** BOOKING\_ID(Primary key), B\_STATUS, B\_PRICE.

* **RELATIONS-**
* Each customer books a package based on the booking status.
* Each package comprises of transportation mode and place of stay.
* In each package, we offer various staying options at the location via different transportation modes.
* At your stay, we offer many facilities like spa, gym, etc which includes amenities as well.
* There are two options to stay - hotels and home stay.





**Functional dependencies-**

1. **Activities-**

ACTIVITITY\_ID --> A\_DESCRIPTION

ACTIVITITY\_ID --> A\_NAME

1. **Location-**

LOCATION\_ID --> L\_NAME

1. **Transportation-**

TRANSPORTATION\_ID --> T\_NAME

1. **Stay-**

STAY\_ID --> LOCATION\_ID

STAY\_ID --> S\_PRICE

STAY\_ID --> S\_NAME

1. **Package-**

PACKAGE\_ID --> P\_NAME

1. **Customer-**

CUSTOMER\_ID --> C\_NAME

CUSTOMER\_ID --> C\_NUMBER

CUSTOMER\_ID --> C\_EMAIL

CUSTOMER\_ID --> C\_SEX

CUSTOMER\_ID --> C\_ADDRESS

1. **Facilities-**

FACILITY\_ID --> F\_GYM

FACILITY\_ID --> F\_SPA

FACILITY\_ID --> F\_SPORTSCOMPLEX

1. **Amenities-**

AMENITY\_ID --> A\_ELECTRICITY

AMENITY\_ID --> A\_ROOMSERVICE

AMENITY\_ID --> A\_WIFI

AMENITY\_ID --> A\_BEDandBREAKFAST

1. **Hotels-**

HOTEL\_ID --> H\_RATING

HOTEL\_ID --> H\_NAME

HOTEL\_ID --> H\_AVAILABILITY

1. **Home stay-**

HOMESTAY\_ID --> HS\_ROOMS

HOMESTAY\_ID --> HS\_AVAILABILITY

HOMESTAY\_ID --> HS\_NAME

1. **Booking-**

BOOKING\_ID --> B\_NAME

BOOKING\_ID --> B\_STATUS

BOOKING\_ID --> B\_PRICE