**Database Schema Description:**

The Project Database consists of six main tables. The first table encountered by the system is the nfc\_and\_employee\_id table, this table consists of all the list of valid NFC card id’s and their corresponding employee id associated to the id’s. The employee id field is the primary key in this table as there is only one unique valid NFC id associated to an employee id unique to individual employees. The employee\_info table consists information about all the employees working for the employer, this table has all the sensitive information regarding the employee. The primary key in this table is the employee id as it is uniquely associated with individual employees and is also a foreign key as it is being referred from the nfc\_and\_employee\_id table. The nodes table is a list of all the entry and exit nodes in the system, this table consists of a list of node id’s uniquely associated to individual entry and exit nodes in the system and also contains information about the location of the nodes and their type.

The access\_entry table is a log of all the employee entry and exit activity for at least 14 days. There are no primary keys allocated to this table as all fields would have multiple occurrences of similar values. Although, the access\_exit table is similar to the access\_entry table and logs all employee exit activity for at least 14 days, it is generated and populated by the access\_entry table and doesn’t have a unique field associated to the table. Lastly, the admin\_log table contains data regarding any activity performed on the GUI by employees with admin access. Similar to the other activity log tables in the database such as the access\_entry and access\_exit tables, the admin\_log table doesn’t have a unique field either as there are many values duplicated in every column.