**Part 3**

1. Remove any existing partial dependencies and convert the logical schema to the Second Normal Form. Don’t forget to denote the primary key and the foreign key.

FDs that violate Second Normal Form because the primary key is (Client, Office):

Office → Floor, Building, City

Client → Executive

Decomposing the original table:

(Date, Client, Office)

(Office, Floor, Building, City)

(Client, Executive)

1. Remove any existing transitive dependencies to create a set of logical schemas in Third Normal Form. Again, remember to denote primary keys and foreign keys (including which primary key those foreign keys point to).

FDs that violate Third Normal Form because of the table (Office, Floor, Building, City). Office is the primary key and Building determines one of the attribute in the table:

Building → City

Decomposing the problematic table:

(Date, Client, Office)

(Office, Floor, Building)

(Client, Executive)

(Building, City)

**Part 4**

In this case the schema is already in Second Normal Form. There are no functional dependencies that have a part of the primary key (such as just First or just Last attribute).

The schema is not in 3NF because there exists a functional dependency where one attribute outside of the primary key (GPA) determines some other attributes (Honor) in the table. Therefore we have to decompose the schema accordingly:

(First, Last, GPA, Credits)

(GPA, Honor)