STEPS TAKEN

- **I have created a new table called "PROPERTY_COLLECTION".**

When a building is demolished where multiple properties are present, the tables which would be affected are,

-- PROPERTY

-- BIN

-- BIN_REQUEST

-- PROPERTY_COLLECTION

The "PROPERTY_COLLECTION" tables track of the total rubbish collected by each property for each collection type within a certain duration of type.

For actually finding the total collected rubbish for each property, the "MBAU" company needs to find a way to keep track of rubbish collection of each property. So there can be a new table which I have not actually created which stores collection of rubbish after each collection request is fulfilled.

So I have assumed that somehow "MBAU" has devised a way of keeping track of rubbish collection of each property after each "COLLECTION" request is performed and then store total rubbish collection of each property in a separate table which I have created called "PROPERTY_COLLECTION".

- **In mbau_q6a.sql, i have inserted records in the above tables and other tables to create a scenario that will affect the tables which are related to the demolished building.**

- **So i have created a scenario where a building has been demolished where "Property_ID" 10 and 11 are present. Basically two properties are present in the same location of the demolished building. The steps that will reflect the changes to the structure of the database are shown below:**

1. Delete all records in "BIN_REQUEST" table which have "Property_ID" = 10 and "Property_ID" = 11 if any.
2. Delete all records in "BIN" table which have "Property_ID" = 10 and "Property_ID" = 11 if any.
3. Delete each record in "PROPERTY_COLLECTION" table if each record exists in "INVOICE" table.

Also deletion of records relating to the demolished properties in the "BIN" table, "PROPERTY" table and the "BIN_REQUEST" table depend on how the "MBAU" company deals with the records.

Deleting records from the "PROPERTY" table depends on the fact that are there any child exist of the "PROPERTY" table's primary that is referencing the primary key of the parent table "PROPERTY".

For example, in the "PROPERTY_COLLECTION", there may be collection records of a specific property that still exists, so that property cannot be deleted from the "Property" table.

They may want to keep records in the "BIN_REQUEST" table of the demolished property if there has been a request for "REPLACEMENT" of the bin if it was faulty. This would help the company know that even if the property is demolished, there was a faulty bin associated with that property and that bin needs to be taken care of regardless of the property being demolished.

With the records in the "BIN" table where there are bins associated with a specific property, they may allocate that bin to a different property, so rather than deleting the record, they may change the "demolished" property attached to that bin to a new property.

Also deleting records from the "PROPERTY_COLLECTION" table depends totally on the company. They may want to keep the collection records as they will produce a report for the "council" so that the council can use that information to charge the residents based on the

volume of rubbish which is collected.