

Our initial schema was already in BCNF, thus, below is our initial and final tables in BCNF.

Functional dependencies for "Housing-Assignment-AI":

**Students Table:**

- ID  $\rightarrow$  Password
- ID  $\rightarrow$  isAdmin
- ID  $\rightarrow$  Name
- ID  $\rightarrow$  Seniority
- ID  $\rightarrow$  isInEboard
- ID  $\rightarrow$  SuitePreference
- ID  $\rightarrow$  RoomSizePreference
- ID  $\rightarrow$  NumberOfAttendance
- ID  $\rightarrow$  NumberOfStrikes

**Room Table:**

- RoomNumber  $\rightarrow$  SuiteType
- RoomNumber  $\rightarrow$  Double
- RoomNumber  $\rightarrow$  OnePointFive

**RoomPreferences Table:**

- PreferencesID  $\rightarrow$  StudentID
- PreferencesID  $\rightarrow$  PreferredRoomNumber

**Assignments Table:**

- AssignmentID  $\rightarrow$  StudentID
- AssignmentID  $\rightarrow$  AssignedRoomNumber

**Suites Table:**

- SuiteType  $\rightarrow$  Description