RealEstate Database Schema

Home

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **homeID** | homeType | bedrooms | baths | interiorArea | parking | heating | cooling | lot | view |

Location

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **locationID** | homeID | address | city | state | postalCode |

Home\_Owner

|  |  |
| --- | --- |
| **ownerID** | **homeID** |

Owner

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ownerID** | firstName | lastName | phone | address | email |

Home\_Buyer

|  |  |
| --- | --- |
| **homeID** | **buyerID** |

Buyer

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **buyerID** | firstName | lastName | phone | address | email |

Home\_Agent

|  |  |
| --- | --- |
| **homeID** | **agentID** |

Agent

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **agentID** | firstName | lastName | phone | address | email |

Price

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **priceID** | homeID | marketPrice | bidPrice | lastPrice |

Property Status

|  |  |  |  |
| --- | --- | --- | --- |
| **statusID** | homeID | status | statusChangedDate |

BCNF proves:

1. There are no multiple valued attributes in every class.
2. Values stored in a column are of the same domain.
3. All the columns in the tables have unique names.
4. The order in which data is stored, does not matter.
5. There is no partial dependency. In the tables where compound keys exist: Home\_Owner, Home\_Buyer, and Home\_Agent, all the values in these tables depend on both keys rather than either one of them.
6. There is no transitive dependency in all tables. Any attribute other than primary key and foreign key is determined by the primary key.