APPENDIX 19.A: INSERT STATEMENTS FOR N1QL BUCKETS

This appendix contains the complete set of INSERT statements for the buckets (*Agent, Home, AgentHome, Agent2*, and *Home2*) used in examples in Section 19.5.2. Before inserting documents, you need to create primary indexes so that the buckets are fully queryable. Thus, the CREATE PRIMARY INDEX statement must precede the INSERT statements for each bucket.

```
// Create indexes
CREATE PRIMARY INDEX AgentIdx ON Agent;
CREATE PRIMARY INDEX HomeIdx ON Home;
CREATE PRIMARY INDEX AgentHomeIdx ON AgentHome;
CREATE PRIMARY INDEX Agent2Idx ON Agent2;
CREATE PRIMARY INDEX Home2Idx ON Home2;


// Traditional table design with foreign keys
// INSERT statement adding 3 documents in the Agent bucket
// INSERT statement can add multiple JSON documents by
// repeating VALUES clause

INSERT INTO Agent (KEY, VALUE)
VALUES ("A871111",
  {"AgentId":"A871111", "AgFirstName":"Willie",
   "AgLastName":"Jones", "AgPhone":"(720)555-1212"} ),

VALUES ("A991111",
  {"AgentId":"A991111", "AgFirstName":"Jorge",
   "AgLastName":"Lopez", "AgPhone":"(303)435-9999"} ),

VALUES ("A999222",
  {"AgentId":"A999222", "AgFirstName":"Aimee",
   "AgLastName":"Chan", "AgPhone": "(303)555-8888"} );

// One INSERT statement for all home documents
INSERT INTO Home (KEY, VALUE)
VALUES ("H111111",
 {"HomeId":"H111111","HomeNoBdrms":3,
  "HomeNoBathrms":2,"HomeAge":15,"AgentId":"A871111",
  "HomeAddr":{"City":"Denver","State":"CO","ZipCode":80113}
  } ),

VALUES ("H222222",
 {"HomeId":"H2222222","HomeNoBdrms":4,
  "HomeNoBathrms":3,"HomeAge":25,"AgentId":"A871111",
  "HomeAddr":{"City":"Centennial","State":"CO",
  "ZipCode":80112} } ),

VALUES ("H333333",
 {"HomeId":"H333333","HomeNoBdrms":2,
  "HomeNoBathrms":2,"HomeAge":3,"AgentId":"A991111",
  "HomeAddr":{"City":"Denver","State":"CO","ZipCode":80104}
  } ),
```

```
VALUES ("H444444",
 {"HomeId":"H444444","HomeNoBdrms":5,
  "HomeNoBathrms":3,"HomeAge":10,"AgentId":"A999222",
  "HomeAddr":{"City":"Aurora","State":"CO","ZipCode":80107}
  } ),

VALUES ("H555555",
 {"HomeId":"H555555","HomeNoBdrms":3,
  "HomeNoBathrms":2,"HomeAge":null,"AgentId":"A999222",
  "HomeAddr":{"City":"Centennial","State":"CO",
  "ZipCode":80112} } ),

VALUES ("HomeH666666",
 {"HomeId":"H666666","HomeNoBdrms":4,
  "HomeNoBathrms":2,"HomeSold":false,"AgentId":"A999222",
  "HomeAddr":{"City":"Aurora","State":"CO","ZipCode":80109}
  } );

// Total nested representation with homes nested inside
agents
// INSERT statement for the AgentHome bucket
INSERT INTO AgentHome (KEY, VALUE)
 VALUES ("AH871111",
  {"AgentId":"A871111", "AgFirstName":"Willie",
   "AgLastName":"Jones", "AgPhone":"(720)555-1212",
    "Home":[
     {"HomeId":"H111111","HomeNoBdrms":3,
      "HomeNoBathrms":2,"HomeAge":15,
      "HomeAddr":{"City":"Denver","State":"CO",
      "ZipCo de":80110}},
     {"HomeId":"H222222","HomeNoBdrms":4,
      "HomeNoBathrms":3,"HomeAge":25,
      "HomeAddr":{"City":"Centennial","State":"CO",
      "ZipCode":80112}}] } ),

VALUES ("AH991111",
  {"AgentId":"A991111", "AgFirstName":"Jorge",
   "AgLastName":"Lopez", "AgPhone":"(303)435-9999",
    "Home":[
     {"HomeId":"H333333","HomeNoBdrms":2,
      "HomeNoBathrms":2,"HomeAge":3,
      "HomeAddr":{"City":"Denver","State":"CO",
      "ZipCode":80104}}] } ),

VALUES ("AH999222",
  {"AgentId":"A999222", "AgFirstName":"Aimee",
   "AgLastName":"Chan", "AgPhone":"(303)555-8888",
    "Home":[
     {"HomeId":"H444444","HomeNoBdrms":5,
      "HomeNoBathrms":3,"HomeAge":10,
      "HomeAddr":{"City":"Aurora","State":"CO",
      "ZipCo de":80107}},
     {"HomeId":"H555555","HomeNoBdrms":3,
      "HomeNoBathrms":2,"HomeAge":null,
      "HomeAddr":{"City":"Centennial","State":"CO",
      "ZipCode":80112}},
```

```
      {"HomeId":"H666666","HomeNoBdrms":4,
       "HomeNoBathrms":2,"HomeSold":false,
       "HomeAddr":{"City":"Aurora","State":"CO",
       "ZipCode":80109} } ] } );

// Partial nested representation with home ids
// nested inside agents
// INSERT statement for the Agent2 bucket with
// array of home ids
INSERT INTO Agent2 (KEY, VALUE)
VALUES ("A871111",
  {"AgentId":"A871111", "AgFirstName":"Willie",
   "AgLastName":"Jones", "AgPhone":"(720)555-1212",
   "HomeId":["H111111","H222222"] } ),

VALUES ("A991111",
  {"AgentId":"A991111", "AgFirstName":"Jorge",
   "AgLastName":"Lopez", "AgPhone":"(303)435-9999",
   "HomeId":["H333333"] } ),

VALUES ("A999222",
  {"AgentId":"A999222", "AgFirstName":"Aimee",
   "AgLastName":"Chan", "AgPhone": "(303)555-8888",
   "HomeId":["H444444","H555555","H666666"] } );


// INSERT statement for the Home2 bucket
INSERT INTO Home2 (KEY, VALUE)
VALUES ("H111111",
 {"HomeId":"H111111","HomeNoBdrms":3,
  "HomeNoBathrms":2,"HomeAge":15,
  "HomeAddr":{"City":"Denver","State":"CO","ZipCode":80113}
  } ),

VALUES ("H222222",
 {"HomeId":"H2222222","HomeNoBdrms":4,
  "HomeNoBathrms":3,"HomeAge":25,
  "HomeAddr":{"City":"Centennial","State":"CO",
  "ZipCode":80112} } ),

VALUES ("H333333",
 {"HomeId":"H333333","HomeNoBdrms":2,
  "HomeNoBathrms":2,"HomeAge":3,
  "HomeAddr":{"City":"Denver","State":"CO","ZipCode":80104}
  } ),

VALUES ("H444444",
 {"HomeId":"H444444","HomeNoBdrms":5,
  "HomeNoBathrms":3,"HomeAge":10,
  "HomeAddr":{"City":"Aurora","State":"CO","ZipCode":80107}
  } ),

VALUES ("H555555",
 {"HomeId":"H555555","HomeNoBdrms":3,
  "HomeNoBathrms":2,"HomeAge":null,
```

```
   "HomeAddr":{"City":"Centennial","State":"CO",
   "ZipCode":80112} } ),

VALUES ("H666666",
 {"HomeId":"H666666","HomeNoBdrms":4,
  "HomeNoBathrms":2,"HomeSold":false,
  "HomeAddr":{"City":"Aurora","State":"CO",
  "ZipCo de":80109} } );
```