

Assignment 7: Mongo Host PL

Tom Bohbot

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1 Insert First Grandfather.

```
Insert grandpa 1:
Trace: {
  _id: 'Maurice:Bohbot:Thu Jan 01 1976 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Maurice',
  lastName: 'Bohbot',
  dob: 1976-01-01T05:00:00.000Z,
  children: [],
  dom: 1995-01-01T05:00:00.000Z
}
    at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:40:17)
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 1: Trace of inputted grandfather

2 Insert First Grandmother.

```
Insert grandma 1:
Trace: {
  _id: 'Denise:Bohbot:Sat Jan 01 1977 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Denise',
  lastName: 'Bohbot',
  dob: 1977-01-01T05:00:00.000Z,
  children: [],
  dom: 1995-01-01T05:00:00.000Z
}
    at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:52:17)
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 2: Trace of inputted grandmother

3 Insert Second Grandfather.

```
Insert grandpa 2:
Trace: {
  _id: 'David:Zerbib:Wed Jan 01 1975 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'David',
  lastName: 'Zerbib',
  dob: 1975-01-01T05:00:00.000Z,
  children: [],
  dom: 1994-01-01T05:00:00.000Z
}
at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:65:17)
at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 3: Trace of second inputted grandfather

4 Insert Second Grandmother.

```
Insert grandma 2:
Trace: {
  _id: 'Viveane:Zerbib:Tue Jan 01 1974 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Viveane',
  lastName: 'Zerbib',
  dob: 1974-01-01T05:00:00.000Z,
  children: [],
  dom: 1994-01-01T05:00:00.000Z
}
at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:77:17)
at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 4: Trace of second inputted grandmother

5 Insert Father.

```
Insert father:
Trace: {
  _id: 'Daniel:Bohbot:Sat Jan 01 2000 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Daniel',
  lastName: 'Bohbot',
  dob: 2000-01-01T05:00:00.000Z,
  children: [],
  parent: { father: 'Maurice Bohbot', mother: 'Denise Bohbot' },
  dom: 2019-01-01T05:00:00.000Z
}
    at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:102:17)
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 5: Trace of inputted father

6 Update First Grandfather Since He Now Has Children.

```
update first grandpa's children
Trace: {
  _id: 'Maurice:Bohbot:Thu Jan 01 1976 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Maurice',
  lastName: 'Bohbot',
  dob: 1976-01-01T05:00:00.000Z,
  children: [
    'Daniel:Bohbot:Sat Jan 01 2000 00:00:00 GMT-0500 (Eastern Standard Time)'
  ],
  dom: 1995-01-01T05:00:00.000Z
}
    at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:112:17)
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
update first grandpa's children
```

Figure 6: Trace of updated grandfather

7 Update First Grandmother Since She Now Has Children.

```
update first grandma's children
Trace: {
  _id: 'Denise:Bohbot:Sat Jan 01 1977 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Denise',
  lastName: 'Bohbot',
  dob: 1977-01-01T05:00:00.000Z,
  children: [
    'Daniel:Bohbot:Sat Jan 01 2000 00:00:00 GMT-0500 (Eastern Standard Time)'
  ],
  dom: 1995-01-01T05:00:00.000Z
}
    at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:114:17)
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 7: Trace of updated grandmother

8 Insert Mother.

```
Insert mother:
Trace: {
  _id: 'Stephanie:Bohbot:Mon Jan 01 2001 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Stephanie',
  lastName: 'Bohbot',
  dob: 2001-01-01T05:00:00.000Z,
  children: [],
  parent: { father: 'David Zerbib', mother: 'Viveane Zerbib' },
  dom: 2019-01-01T05:00:00.000Z
}
at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:136:17)
at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 8: Trace of inputted mother

9 Update Second Grandfather Since He Now Has Children.

```
Trace: {
  _id: 'David:Zerbib:Wed Jan 01 1975 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'David',
  lastName: 'Zerbib',
  dob: 1975-01-01T05:00:00.000Z,
  children: [
    'Stephanie:Bohbot:Mon Jan 01 2001 00:00:00 GMT-0500 (Eastern Standard Time)'
  ],
  dom: 1994-01-01T05:00:00.000Z
}
at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:146:17)
at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 9: Trace of updated grandfather

10 Update Second Grandmother Since She Now Has Children.

```
update second grandma's children
Trace: {
  _id: 'Viveane:Zerbib:Tue Jan 01 1974 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Viveane',
  lastName: 'Zerbib',
  dob: 1974-01-01T05:00:00.000Z,
  children: [
    'Stephanie:Bohbot:Mon Jan 01 2001 00:00:00 GMT-0500 (Eastern Standard Time)'
  ],
  dom: 1994-01-01T05:00:00.000Z
}
at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:148:17)
at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 10: Trace of updated grandmother

11 Insert First Child.

```
Insert child 1:
Trace: {
  _id: 'Tom:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Tom',
  lastName: 'Bohbot',
  dob: 2021-01-01T05:00:00.000Z,
  children: [],
  parent: { father: 'Daniel Bohbot', mother: 'Stephanie Bohbot' }
}
    at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:166:17)
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 11: Trace of first inputted child

12 Update Father Since He Now Has Children.

```
update father's children
Trace: {
  _id: 'Daniel:Bohbot:Sat Jan 01 2000 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Daniel',
  lastName: 'Bohbot',
  dob: 2000-01-01T05:00:00.000Z,
  children: [
    'Tom:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)'
  ],
  parent: { father: 'Maurice Bohbot', mother: 'Denise Bohbot' },
  dom: 2019-01-01T05:00:00.000Z
}
    at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:176:17)
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 12: Trace of updated father

13 Update Mother Since She Now Has Children.

```
update mother's children
Trace: {
  _id: 'Stephanie:Bohbot:Mon Jan 01 2001 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Stephanie',
  lastName: 'Bohbot',
  dob: 2001-01-01T05:00:00.000Z,
  children: [
    'Tom:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)'
  ],
  parent: { father: 'David Zerbib', mother: 'Viveane Zerbib' },
  dom: 2019-01-01T05:00:00.000Z
}
    at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:178:17)
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 13: Trace of updated mother

14 Insert Second Child.

```
Insert child 2:
Trace: {
  _id: 'Tania:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Tania',
  lastName: 'Bohbot',
  dob: 2021-01-01T05:00:00.000Z,
  children: [],
  parent: { father: 'Daniel Bohbot', mother: 'Stephanie Bohbot' }
}
  at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:196:17)
  at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 14: Trace of second inputted child

15 Update Father Since He Now Has Children.

```
update father's children
Trace: {
  _id: 'Daniel:Bohbot:Sat Jan 01 2000 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Daniel',
  lastName: 'Bohbot',
  dob: 2000-01-01T05:00:00.000Z,
  children: [
    'Tom:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)',
    'Tania:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)'
  ],
  parent: { father: 'Maurice Bohbot', mother: 'Denise Bohbot' },
  dom: 2019-01-01T05:00:00.000Z
}
  at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:206:17)
  at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 15: Trace of updated father

16 Update Mother Since She Now Has Children.

```
update mother's children
Trace: {
  _id: 'Stephanie:Bohbot:Mon Jan 01 2001 00:00:00 GMT-0500 (Eastern Standard Time)',
  firstName: 'Stephanie',
  lastName: 'Bohbot',
  dob: 2001-01-01T05:00:00.000Z,
  children: [
    'Tom:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)',
    'Tania:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)'
  ],
  parent: { father: 'David Zerbib', mother: 'Viveane Zerbib' },
  dom: 2019-01-01T05:00:00.000Z
}
  at run (/Users/tombohbot/TomsGit/BohbotTom/ModernDataManagement/assignments/MongoHostPL/app.js:208:17)
  at processTicksAndRejections (internal/process/task_queues.js:93:5)
```

Figure 16: Trace of updated mother

17 Query the whole family and sort.

```
Query the family by sorting dob and then lastName
[
  {
    _id: 'Viveane:Zerbib:Tue Jan 01 1974 00:00:00 GMT-0500 (Eastern Standard Time)',
    firstName: 'Viveane',
    lastName: 'Zerbib',
    dob: 1974-01-01T05:00:00.000Z,
    children: [
      'Stephanie:Bohbot:Mon Jan 01 2001 00:00:00 GMT-0500 (Eastern Standard Time)'
    ],
    dom: 1994-01-01T05:00:00.000Z
  },
  {
    _id: 'David:Zerbib:Wed Jan 01 1975 00:00:00 GMT-0500 (Eastern Standard Time)',
    firstName: 'David',
    lastName: 'Zerbib',
    dob: 1975-01-01T05:00:00.000Z,
    children: [
      'Stephanie:Bohbot:Mon Jan 01 2001 00:00:00 GMT-0500 (Eastern Standard Time)'
    ],
    dom: 1994-01-01T05:00:00.000Z
  },
  {
    _id: 'Maurice:Bohbot:Thu Jan 01 1976 00:00:00 GMT-0500 (Eastern Standard Time)',
    firstName: 'Maurice',
    lastName: 'Bohbot',
    dob: 1976-01-01T05:00:00.000Z,
    children: [
      'Daniel:Bohbot:Sat Jan 01 2000 00:00:00 GMT-0500 (Eastern Standard Time)'
    ],
    dom: 1995-01-01T05:00:00.000Z
  },
  {
    _id: 'Denise:Bohbot:Sat Jan 01 1977 00:00:00 GMT-0500 (Eastern Standard Time)',
    firstName: 'Denise',
    lastName: 'Bohbot',
    dob: 1977-01-01T05:00:00.000Z,
    children: [
      'Daniel:Bohbot:Sat Jan 01 2000 00:00:00 GMT-0500 (Eastern Standard Time)'
    ],
    dom: 1995-01-01T05:00:00.000Z
  },
  {
    _id: 'Daniel:Bohbot:Sat Jan 01 2000 00:00:00 GMT-0500 (Eastern Standard Time)',
    firstName: 'Daniel',
    lastName: 'Bohbot',
    dob: 2000-01-01T05:00:00.000Z,
    children: [
      'Tom:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)',
      'Tania:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)'
    ],
    parent: { father: 'Maurice Bohbot', mother: 'Denise Bohbot' },
    dom: 2019-01-01T05:00:00.000Z
  },
  {
    _id: 'Stephanie:Bohbot:Mon Jan 01 2001 00:00:00 GMT-0500 (Eastern Standard Time)',
    firstName: 'Stephanie',
    lastName: 'Bohbot',
    dob: 2001-01-01T05:00:00.000Z,
    children: [
      'Tom:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)',
      'Tania:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)'
    ],
    parent: { father: 'David Zerbib', mother: 'Viveane Zerbib' },
    dom: 2019-01-01T05:00:00.000Z
  },
  {
    _id: 'Tom:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)',
    firstName: 'Tom',
    lastName: 'Bohbot',
    dob: 2021-01-01T05:00:00.000Z,
    children: [],
    parent: { father: 'Daniel Bohbot', mother: 'Stephanie Bohbot' }
  },
  {
    _id: 'Tania:Bohbot:Fri Jan 01 2021 00:00:00 GMT-0500 (Eastern Standard Time)',
    firstName: 'Tania',
    lastName: 'Bohbot',
    dob: 2021-01-01T05:00:00.000Z,
    children: [],
    parent: { father: 'Daniel Bohbot', mother: 'Stephanie Bohbot' }
  }
]
```

Figure 17: sorted via dob and firstName