1. Collection and Documenting relationships

- Collection "job": Contain all job information

_id: String (surrogate key)

workclass: String occupation: String

- Collection "education": Contain all education's levels

_id: String (surrogate key)

education: String
education_num: Int32

- Collection "relation": Contain all individual relation

_id: String (surrogate key) marital_status: String relationship: String

- Collection "national": Contain all ethnicities

_id: String (surrogate key)

race: String

native_country: String

- Collection "adult": Contain every single person's data

_id: String (surrogate key)

age: Int32

total: Int32 (total of assets)

gender: String

capital_gain: Int32 (top-up in balance)
capital_loss: Int32 (charge in balance

hours_per_week: Int32 (work hours per week)

income_bracket: String
job: String (Foreign Key)

education: String (Foreign Key)
relation: String (Foreign Key)
national: String (Foreign Key)

2. Indexing the Collection

- Based on data sources and business queries, the data seem to be focused on individual finance status: assets, capital gain, capital loss, and income.
- Indexing the "adult.total" will provide high performance for finance queries, to check if it works, use the command: db.adult.explain().find()