MONGODB DATABASE

Design, development and implementation of a MongoDB database
for Teton Whitewater Kayak (TWK) Company

Database Design for Business Analytics

Ari

1. Introduction and Objective.

Teton Whitewater Kayak (TWK) is a company that conducts their business mostly online and generates high volume transactions. Therefore, due to the high-volume nature of the business transactions, TWK management has decided to migrate from a Relational database (RDB) system to MongoDB. In this project, we have created MongoDB database, collections, and sample documents in each collection. This was done based on the TWK case. This MongoDB database we created should be able to support TWK's high volume online business transactions.

The database will allow TWK to enter, record, process, and print transactions having to do with equipment rentals, reservations, returns, sales and inventory functions. This is an as-is purpose. While this is mostly a data-entry application, there is a need for some analysis when it comes to late fees, discount rates and others. The users will primarily be employees.

This report will include diagrams used in the planning phase of MongoDB database, the code used to create database, collections, and documents in MongoDB. Additionally, there will also be screenshots of how functions like find() and limit()used with pretty() method to retrieve and display documents from each collection.

2. The ERD or ERD-like diagram used to depicting the data requirements for TWK.

Equipment Sale
- equip_barcodeID
- equip_full_retail_price
- sale_discount
- sale_charge
- sale_tax_interval
- sale_grandtotal
- sale_date
- sale_time
- payment_method
- sale_status
- equip_status
- equip_type_id
- equiptype_count_instock
- inventory_count_type

Equipment Return
- return_id
- rental_id
- return_timestamp
- pickup_date_rqstd
- return_date_rqstd
- checkout_date
- return_date
- actual_return_date
- actual_return_time
- return_ok
- cust_id
- reservation_id
- equip_barcodeID
- equip_type_id
- equip_deposit_amt
- deposit_amt_total
- late_fee()
- deposit_return_amnt

Customer
- cust_id
- cust_fname
- cust_lname
- cust_phone
- cust_email
- cust_hist
- cust_rep
- cust_status{}
- cust_address{}

Equipment Reservation

- cust_id
- reservation_id
- equip_barcodeID

- cust_fname
- cust_lname
- cust_phone
- cust_email
- cust_address{}
- cust_status{}
- equp_type_id
- equiptypeCBS_count_instock:
- rqstd_pickup_date
- rqstd_return_date
- equip_deposit_amt:
- equip_available
- same_day
- storage_location
- retrieve_immediately
- equip_rental_price_per_day
- payment_method

Equipment

- equip_barcodeID

- equip_type
- equp_type_id
- equip_status
- storage_location
- equp_condition
- inventory_count_type
- instock_count_type
- equp_full_retail_price
- equp_replace
- equip_rental_price_per_day
- equip_deposit_amt

Equipment Rental

- cust_id
- reservation_id
- rental_id
- equip_barcodeID

- equipment_type
- equip_type_id
- same_day
- equip_status
- rental_charge
- pickup_date_rqstd
- return_date_rqstd
- checkout_date
- return_date
- equiptype_count_instock
- equip_deposit_amt
- deposit_increase_interval
- res_notification
- customer_info{}
- cust_status{}
- amount_owed_resolved
- equip_rental_price_per_day
- number_days_renting
- rental_charge
- payment_method

3. The codes with which the database, collections, and documents were created in MongoDB.

```
use Team1_TWK
//EQUIPMENT COLLECTION
//DOC 1, Equipment--
db.Equipment.insertOne({equip_barcodeID: "CBS09OBE",
        equip_type: "creekboat single",
        equip_class: "CBS"          ,
        inventory_count_CBS: 25,
        equiptypeCBS_count_instock: 25,
        equip_status: "in stock",
        storage_location: "OBE",
        equip_condition: "new or like new",
        equip_full_retail_price: 450,
        equip_replace: "no",
        equip_rental_price_per_day: 50,
        equip_deposit_amt: 15
        })

//DOC 2, Equipment--
db.Equipment.insertOne({
        equip_barcodeID: "CBS18OBE",
        equip_type: "creekboat single",
        equip_class: "CBS"          ,
        inventory_count_CBS: 25,
        equiptypeCBS_count_instock: 25,
        equip_status: "in stock",
        storage_location: "SSW",
        equip_condition: "new or like new",
        equip_full_retail_price: 450,
        equip_replace: "no",
        equip_rental_price_per_day: 50,
        equip_deposit_amt: 15
        })

//COSTUMER COLLECTION
//DOC 1, Customer--
db.Customer.insertOne(
        {
        cust_id: 1000001,
        cust_fname: "Arayana",
        cust_lname: "Janson",
        cust_phone: 2695552222,
        cust_email: "arayana.a.janson@wmich.edu",
        cust_address:
                {
                cust_street: "3713 West Main",
                cust_city: "Kalamazoo",
                cust_state: "MI",
                cust_zip: 49006
                },
        cust_history: "yes",
        cust_rep:
                {
```

```
                    cust_history_value: "bad",
                    return_problem: "yes",
                    return_problem_details:
                              {
                              return_id: 6794857,
                              equipments_rented:
                                        [
{equip_barcodeID: "CBS03OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"},
{equip_barcodeID: "CBS04OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"}
                                        ],
                              equip_return_problem: "late return",
                              rental_date: "2020-03-17",
                              checkout_date: "2020-03-17",
                              return_date: "2020-03-18",
                              checkin_date: "2020-03-19",
                              deposit_amt_total: 130,
                              amount_owed: 100,
                              payment_method: "cash",
                              unreturned_equipment: "no"
                              }
                    }
          })

//DOC 2, Customer--
db.Customer.insertOne({
          cust_id: 1000002,
          cust_fname: "Kimberly",
          cust_lname: "Chong",
          cust_phone: 2693332222,
          cust_email: "kimberly.chong@wmich.edu",
          cust_address:
                    {
                    cust_street: "3709 West Main",
                    cust_city: "Kalamazoo",
                    cust_state: "MI",
                    cust_zip: 49006
                    },
          cust_history: "yes",
          cust_rep: "yes"
          })

//EQUIPMENT_RESERVATION COLLECTION
//DOC 1, Equipment_Reservation--
db.Equipment_Reservation.insertOne(
          {
          cust_info:
                    {
                    cust_id: 1000001,
                    cust_fname: "Arayana",
                    cust_lname: "Janson",
                    cust_phone: 2695552222,
                    cust_email: "arayana.a.janson@wmich.edu",
                    cust_address:
```

```
                    {
                    cust_street: "3713 West Main",
                    cust_city: "Kalamazoo",
                    cust_state: "MI",
                    cust_zip: 49006
                    },
              cust_history: "yes",
              cust_rep:
                    {
                    cust_history_value: "bad",
                    return_problem: "yes",
                    return_problem_details:
                          {
                          return_id: 6794857,
                          equipments_rented:
                                [
{equip_barcodeID: "CBS03OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"},
{equip_barcodeID: "CBS04OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"}
                                ],
                          equip_return_problem: "late return",
                          rental_date: "2020-03-17",
                          checkout_date: "2020-03-17",
                          return_date: "2020-03-18",
                          checkin_date: "2020-03-19",
                          deposit_amt_total: 130,
                          amount_owed: 100,
                          payment_method: "cash",
                          unreturned_equipment: "no"
                          }
                    }
              },
       reservation_id: 1234567,
       reservation_date: "2020-11-28",
       equipments_reserved:
              [
{equip_barcodeID: "CBS09OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage", same_day: "yes", storage_location: "OBE", equip_status: "in stock", equip_rental_price_per_day: 50,
equip_deposit_amt: 15},
{equip_barcodeID: "CBS10OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage", same_day: "yes", storage_location: "OBE", equip_status: "in stock", equip_rental_price_per_day: 50,
equip_deposit_amt: 15}
              ],
       equiptypeCBS_count_instock: 25,
       rqstd_pickup_date: "2020-11-28",
       rqstd_return_date: "2020-11-29",
       total_deposit_amt: 30,
       equip_available: "yes",
       email_availability:
              {
              equip_available: "yes",
              cust_info:
                    {
                    cust_id: 1000001,
```

```
                            cust_fname: "Arayana",
                            cust_lname: "Janson",
                            cust_phone: 2695552222,
                            cust_email: "arayana.a.janson@wmich.edu",
                            cust_address:
                                    {
                                    cust_street: "3713 West Main",
                                    cust_city: "Kalamazoo",
                                    cust_state: "MI",
                                    cust_zip: 49006,
                                    }
                            }
                    },
            equip_total_rental_price_per_day: 100,
            payment_method: "cash"
            })

//DOC 2, Equipment_Reservation--
db.Equipment_Reservation.insertOne(
            {
            cust_info:
                    {
                    cust_id: 1000002,
                    cust_fname: "Kimberly",
                    cust_lname: "Chong",
                    cust_phone: 2693332222,
                    cust_email: "kimberly.chong@wmich.edu",
                    cust_address:
                            {
                            cust_street: "3709 West Main",
                            cust_city: "Kalamazoo",
                            cust_state: "MI",
                            cust_zip: 49006
                            },
                    cust_history: "yes",
                    cust_rep:
                            {
                            cust_history_value: "good",
                            return_problem: "no"
                            }
                    },
            reservation_id: 1235678,
            reservation_date: "2020-12-05",
            equipments_reserved:
                    [
{equip_barcodeID: "TRT23SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new", same_day: "no", storage_location: "SSW", equip_status: "in stock", equip_rental_price_per_day: 125,
equip_deposit_amt: 35},
{equip_barcodeID: "TRT24SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new", same_day: "no", storage_location: "SSW", equip_status: "in stock", equip_rental_price_per_day: 125,
equip_deposit_amt: 35}
                    ],
            equiptypeCBS_count_instock: 24,
            rqstd_pickup_date: "2020-12-13",
            rqstd_return_date: "2020-12-14",
```

```
            total_deposit_amt: 70,
            equip_available: "yes",
            email_availability:
                    {
                    equip_available: "yes",
                    cust_info:
                            {
                            cust_id: 1000002,
                            cust_fname: "Kimberly",
                            cust_lname: "Chong",
                            cust_phone: 2693332222,
                            cust_email: "kimberly.chong@wmich.edu",
                            cust_address:
                                    {
                                    cust_street: "3709 West Main",
                                    cust_city: "Kalamazoo",
                                    cust_state: "MI",
                                    cust_zip: 49006
                                    }
                            }
                    },
            same_day: "no",
            equip_total_rental_price_per_day: 250,
            payment_method: "cash"
            })

//EQIPMENT_RENTAL COLLECTION
//DOC 1, Equipment_Rental--
db.Equipment_Rental.insertOne(
        {
        reservation_id: 1234567,
        rental_id: 5987654,
        equipments_rented:
                [
{equip_barcodeID: "CBS09OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage", same_day: "yes", storage_location: "OBE", equip_status: "rented", equip_rental_price_per_day: 50,
equip_deposit_amt: 15},
{equip_barcodeID: "CBS09OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage", same_day: "yes", storage_location: "OBE", equip_status: "rented", equip_rental_price_per_day: 50,
equip_deposit_amt: 15}
                ],
        rqstd_pickup_date: "2020-11-28",
        rqstd_return_date: "2020-11-29",
        checkout_date: "2020-11-28",
        return_date: "2020-11-29",
        equiptypeCBS_count_instock: 23,
        total_deposit_amt: 30,
        deposit_increase_interval: 1.25,
        customer_info:
                {
                cust_id: 1000001,
                cust_fname: "Arayana",
                cust_lname: "Janson",
                cust_phone: 2695552222,
                cust_email: "arayana.a.janson@wmich.edu",
```

```
                    cust_address:
                            {
                            cust_street: "3713 West Main",
                            cust_city: "Kalamazoo",
                            cust_state: "MI",
                            cust_zip: 49006
                            },
                    cust_history: "yes",
                    cust_rep:
                            {
                            cust_history_value: "bad",
                            return_problem: "yes",
                            return_problem_details:
                                    {
                                    return_id: 6794857,
                                    equipments_rented:
                                            [
{equip_barcodeID: "CBS03OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"},
{equip_barcodeID: "CBS04OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"}
                                            ],
                                    equip_return_problem: "late return",
                                    rental_date: "2020-03-17",
                                    checkout_date: "2020-03-17",
                                    return_date: "2020-03-18",
                                    checkin_date: "2020-03-19",
                                    deposit_amt_total: 130,
                                    amount_owed: 100,
                                    payment_method: "cash",
                                    unreturned_equipment: "no"
                                    }
                            }
                    },
            amt_owed_resolved: "yes",
            equip_total_rental_price_per_day: 100,
            number_days_renting: 1,
            payment_method: "cash"
            })

//DOC 2, Equipment_Rental--
db.Equipment_Rental.insertOne({
        reservation_id: 1235678,
        rental_id: 5987782,
        equipments_rented:
                [
{equip_barcodeID: "TRT23SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new", same_day: "no", storage_location: "SSW", equip_status: "rented", equip_rental_price_per_day: 125,
equip_deposit_amt: 35},
{equip_barcodeID: "TRT24SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new", same_day: "no", storage_location: "SSW", equip_status: "rented", equip_rental_price_per_day: 125,
equip_deposit_amt: 35}
                ],
        rqstd_pickup_date: "2020-12-13",
        rqstd_return_date: "2020-12-14",
```

```
            checkout_date: "2020-12-13",
            return_date: "2020-12-14",
            equiptypeCBS_count_instock: 22,
            total_deposit_amt: 70,
            deposit_increase_interval: 1.25,
            cust_info:
                    {
                    cust_id: 1000002,
                    cust_fname: "Kimberly",
                    cust_lname: "Chong",
                    cust_phone: 2693332222,
                    cust_email: "kimberly.chong@wmich.edu",
                    cust_address:
                            {
                            cust_street: "3709 West Main",
                            cust_city: "Kalamazoo",
                            cust_state: "MI",
                            cust_zip: 49006
                            },
                    cust_history: "yes",
                    cust_rep:
                            {
                            cust_history_value: "good",
                            return_problem: "no"
                            }
                    },
            equip_total_rental_price_per_day: 250,
            number_days_renting: 1,
            payment_method: "cash",
            })

//*Problem With Return Collection
//Doc 1, Problem_With_Return--
db.Problem_With_Return.insertOne(
        {
        cust_id: 1000001,
        return_id: 6794857,
        equipments_rented:
                [
{equip_barcodeID: "CBS03OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"},
{equip_barcodeID: "CBS04OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"}
                ],
        equip_return_problem: "late return",
        rental_date: "2020-03-17",
        checkout_date: "2020-03-17",
        return_date: "2020-03-18",
        checkin_date: "2020-03-19",
        amount_owed: 100
        } )

//Doc 2, Problem_With_Return--
db.Problem_With_Return.insertOne(
        {
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        cust_id: 1000500,
        return_id: 5432123,
        equipments_rented:
                [
{equip_barcodeID: "CBS07OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"},
{equip_barcodeID: "TRT04OBE", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new"}
                ],
        equip_return_problem: "late return",
        rental_date: "2020-04-22",
        checkout_date: "2020-04-22",
        return_date: "2020-04-23",
        checkin_date: "2020-04-24",
        amount_owed: 175
        } )

//*Rental Agreement Collection, 2.1.2 #7 and 2.1.5(?)
//Doc 1, Rental_Agreement--
db.Rental_Agreement.insertOne(
        {
        Header_Section:
                {
                rental_id: 5437682,
                checkout_date: "2020-11-28",
                return_date: "2020-11-29",
                customer_info:
                        {
                        cust_id: 1000001,
                        cust_fname: "Arayana",
                        cust_lname: "Janson",
                        cust_phone: 2695552222,
                        cust_email: "arayana.a.janson@wmich.edu",
                        cust_address:
                                {
                                cust_street: "3713 West Main",
                                cust_city: "Kalamazoo",
                                cust_state: "MI",
                                cust_zip: "49006"
                                }
                        },
                },
        Detail_Section:
                {
                equipments_rented:
                        [
{equip_barcodeID: "CBS09OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage", equip_rental_price_per_day: 50, equip_deposit_amt: 15},
{equip_barcodeID: "CBS10OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage", equip_rental_price_per_day: 50, equip_deposit_amt: 15}
                        ],
                total_deposit_amt: 30,
                equip_total_rental_price_per_day: 100,
                rental_tax: 0.06,
                rental_total: 106
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                },
        Footer_Section:
                {
                rental_subtotal: 100,
                deposit_subtotal: 30,
                rental_tax: 0.06,
                rental_grand_total: 136
                }
        })

//Doc 2, Rental_Agreement--
db.Rental_Agreement.insertOne(
        {
        Header_Section:
                {
                rental_id: 5987782,
                checkout_date: "2020-12-13",
                return_date: "2020-12-14",
                cust_info:
                        {cust_id: 1000002,
                        cust_fname: "Kimberly",
                        cust_lname: "Chong",
                        cust_phone: 2693332222,
                        cust_email: "kimberly.chong@wmich.edu",
                        cust_address:
                                {
                                cust_street: "3709 West Main",
                                cust_city: "Kalamazoo",
                                cust_state: "MI",
                                cust_zip: 49006
                                }
                        }
                },
        Detail_Section:
                {
                equipments_rented:
                        [
{equip_barcodeID: "TRT23SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new", same_day: "no", equip_rental_price_per_day: 125, equip_deposit_amt: 35},
{equip_barcodeID: "TRT24SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new", same_day: "no", equip_rental_price_per_day: 125, equip_deposit_amt: 35}
                        ],
                total_deposit_amt: 70,
                equip_total_rental_price_per_day: 250,
                rental_tax: 0.06,
                rental_total: 265
                },
        Footer_Section:
                {
                equip_total_rental_price_per_day: 250,
                total_deposit_amt: 70,
                rental_tax: 0.06,
                rental_grand_total: 335
                }
        })
```

```
//EQUIPMENT RETURN COLLECTION
//Doc 1, Equipment_Return--
db.Equipment_Return.insertOne(
        {
        cust_id: 1000001,
        reservation_id: 1234567,
        rental_id: 5987654,
        return_id: 7895432,
        return_timestamp: "2020-11-29T09:17:09Z",
        rental_id: 5437682,
        rqstd_pickup_date: "2020-11-28",
        rqstd_return_date: "2020-11-29",
        checkout_date: "2020-11-28",
        return_date: "2020-11-30",
        checkin_date: "2020-11-30",
        actual_return_time: "ontime",
        rental_amts:
                {
                equip_total_rental_price_per_day: 100,
                total_deposit_amt: 30,
                rental_tax: 0.06,
                rental_grand_total: 136
                },
        equip_inspection: "undamaged",
        degree_of_damage: 0,
        late_fee:
                {
                actual_return_time: "ontime",
                days_late: 0,
                rental_total: 100
                },
        damage_fee:
                {
                equip_inspection: "good",
                deposit_damage_portion: 0        ,
                deposit_damage_retained: 0
                },
        deposit_retained:
                {
                late_fee: 0,
                damage_fee: 0
                },

        equipments_returned:
                [
{equip_barcodeID: "CBS09OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage", same_day: "yes", storage_location: "OBE", equip_status: "in stock", equip_rental_price_per_day: 50,
equip_deposit_amt: 15},
{equip_barcodeID: "CBS09OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage", same_day: "yes", storage_location: "OBE", equip_status: "instock", equip_rental_price_per_day: 50,
equip_deposit_amt: 15}
                ],
        cust_history_updated:
                {
                cust_history: "yes",
```

```
                cust_rep: "no",
                equip_condition: "already inventoried damage"
                }
        })

//Doc 2, Equipment_Return--
db.Equipment_Return.insertOne(
        {
        cust_id: 1000002,
        reservation_id: 1235678,
        rental_id: 5987782,
        return_id: 7895778,
        return_timestamp: "2020-12-14T07:23:34Z",
        rqstd_pickup_date: "2020-12-13",
        rqstd_return_date: "2020-12-14",
        checkout_date: "2020-12-13",
        return_date: "2020-12-14",
        checkin_date: "2020-12-14",
        actual_return_time: "ontime",
        rental_amts:
                {
                equip_total_rental_price_per_day: 250,
                total_deposit_amt: 70,
                rental_tax: 0.06,
                rental_grand_total: 335
                },
        equip_inspection: "undamaged",
        degree_of_damage: 0,
        late_fee:
                {
                actual_return_time: "ontime",
                days_late: 0,
                rental_total: 320
                },
        damage_fee:
                {
                equip_inspection: "good",
                deposit_damage_portion: 0      ,
                deposit_damage_retained: 0
                },
        deposit_retained:
                {
                late_fee: 0,
                damage_fee: 0
                },
        equipments_returned:
                [
{equip_barcodeID: "TRT23SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new", same_day: "no", storage_location: "SSW", equip_status: "in stock", equip_rental_price_per_day: 125,
equip_deposit_amt: 35},
{equip_barcodeID: "TRT24SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new", same_day: "no", storage_location: "SSW", equip_status: "in stock", equip_rental_price_per_day: 125,
equip_deposit_amt: 35}
                ],
        cust_history_updated:
```

```
            {
            cust_history: "yes",
            cust_rep: "no",
            equip_condition: "already inventoried damage"
            }
        })


//*Monies Kept Receipt Collection, 2.1.3 #6
//Doc 1, Deposit_Retained--
db.Deposit_Retained.insertOne(
        {
        cust_id: 1000001,
        return_id: 7895432,
        equipments_rented:
                [
{equip_barcodeID: "CBS09OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"},
{equip_barcodeID: "CBS10OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_condition: "insignificant
cosmetic damage"}
                ],
        equip_return_problem: "none",
        checkout_date: "2020-11-28",
        return_date: "2020-11-29",
        checkin_date: "2020-11-30",
        amount_owed: 0,
        deposit_amt_total: 30,
        returned_deposit: 30,
        payment_method: "cash"
        } )


//Doc 2, Deposit_Retained--
db.Deposit_Retained.insertOne({
        cust_id: 1000002,
        return_id: 7895778,
        equipments_rented:
                [
{equip_barcodeID: "TRT23SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new"},
{equip_barcodeID: "TRT24SSW", equipment_type: "touring tandem", equip_class: "TRT", equip_condition: "new or like
new"}
                ],
        equip_return_problem: "none",
        checkout_date: "2020-12-13",
        return_date: "2020-12-14",
        checkin_date: "2020-12-14",
        amount_owed: 0,
        deposit_amt_total: 70,
        returned_deposit: 70,
        payment_method: "cash"
        })
```

```
//2.1.4 Equipment Sale Collection
//Doc 1, Equipment_Sale--
db.Equipment_Sale.insertOne(
        {
        sale_id: 00283,
        customer_info:
                {
                cust_id: 1000001,
                cust_fname: "Arayana",
                cust_lname: "Janson",
                cust_phone: 2695552222,
                cust_email: "arayana.a.janson@wmich.edu",
                cust_address:
                        {
                        cust_street: "3713 West Main",
                        cust_city: "Kalamazoo",
                        cust_state: "MI",
                        cust_zip: "49006"
                        }
                },
        equip_purchase:
                {
                equip_barcodeID: "TRT14SSW",
                equip_full_retail_price: 625,
                equip_type: "touring tandem",
                equip_class: "TRT",
                equip_condition: "insignificant cosmetic damage"
                },
        sale_discount: 0.6,
        sale_subtotal: 375          ,
        sales_tax_interval: 1.0625,
        sale_grandtotal: 398,
        sale_date: "2020-12-20",
        purchase_time: "2020-12-20T09:34:21Z",
        payment_method: "cash",
        sale_status: "sold",
        equip_status: "sold",
        equip_class: "OOI",
        equiptypeTRT_count_instock: 24,
        rqstd_pickup_date: "2020-12-20"
        })

//Doc 2, Equipment_Sale--
db.Equipment_Sale.insertOne({
        sale_id: 00299,
        customer_info:
                {
                cust_id: 1000546,
                cust_fname: "Joe",
                cust_lname: "Jupiter",
                cust_phone: 2695592222,
                cust_email: "joe.jupiter@wmich.edu",
                cust_address:
                        {
                        cust_street: "3718 West Main",
```

```
                                        cust_city: "Kalamazoo",
                                        cust_state: "MI",
                                        cust_zip: "49006"
                                        }
                        },
                equip_purchase:
                        {
                        equip_barcodeID: "TRT02SSW",
                        equip_full_retail_price: 625,
                        equip_type: "touring tandem",
                        equip_class: "TRT",
                        equip_condition: "insignificant cosmetic damage"
                        },
                sale_discount: 0.6,
                sale_subtotal: 375          ,
                sales_tax_interval: 1.0625,
                sale_grandtotal: 398,
                sale_date: "2020-11-25",
                purchase_time: "2020-11-25T22:32:13Z",
                payment_method: "cash",
                sale_status: "sold",
                equip_status: "sold",
                equip_class: "OOI",
                equiptypeTRT_count_instock: 23,
                rqstd_pickup_date: "2020-11-25"
                })

//Charges Record Collection, 2.1.4 #3.b
//Doc 1, Sales_Payment
db.Sales_Payment.insertOne(
        {
        sale_id: 00283,
        customer_info:
                {
                cust_id: 1000001,
                cust_fname: "Arayana",
                cust_lname: "Janson",
                cust_phone: 2695552222,
                cust_email: "arayana.a.janson@wmich.edu",
                cust_address:
                        {
                        cust_street: "3713 West Main",
                        cust_city: "Kalamazoo",
                        cust_state: "MI",
                        cust_zip: "49006"
                        }
                },
        equip_purchase:
                {
                equip_barcodeID: "TRT14SSW",
                equip_full_retail_price: 625,
                equip_type: "touring tandem",
                equip_class: "TRT",
                equip_condition: "insignificant cosmetic damage"
                },
```

```
		payment: "cash",
		sale_date: "2020-12-20",
		purchase_time: "2020-12-20T09:34:21Z",
		sale_equip:
				{
				sale_discount: 0.6,
				sale_subtotal: 375          ,
				sales_tax_interval: 1.0625,
				sale_grandtotal: 398
				},
		rqstd_pickup_date: "2020-12-20"
		})

//Doc 2, Sales_Payment
db.Sales_Payment.insertOne({
		sale_id: 00299,
		customer_info:
				{
				cust_id: 1000546,
				cust_fname: "Joe",
				cust_lname: "Jupiter",
				cust_phone: 2695592222,
				cust_email: "joe.jupiter@wmich.edu",
				cust_address:
						{
						cust_street: "3718 West Main",
						cust_city: "Kalamazoo",
						cust_state: "MI",
						cust_zip: "49006"
						}
				},
		equip_purchase:
				{
				equip_barcodeID: "TRT02SSW",
				equip_full_retail_price: 625,
				equip_type: "touring tandem",
				equip_class: "TRT",
				equip_condition: "insignificant cosmetic damage"
				},
		payment: "cash",
		sale_date: "2020-11-25",
		purchase_time: "2020-11-25T22:32:13Z",
		sale_equip:
				{
				sale_discount: 0.6,
				sale_subtotal: 375,
				sales_tax_interval: 1.0625,
				sale_grandtotal: 398,
				},
		rqstd_pickup_date: "2020-11-25"
		})
```

```
//Sales Receipt Collection, 2.1.4 #4
//Doc 1, Sales_Receipt--
db.Sales_Receipt.insertOne(
        {
        sale_id: 00283,
        customer_info:
                {
                cust_id: 1000001,
                cust_fname: "Arayana",
                cust_lname: "Janson",
                cust_phone: 2695552222,
                cust_email: "arayana.a.janson@wmich.edu",
                cust_address:
                        {
                                cust_street: "3713 West Main",
                                cust_city: "Kalamazoo",
                                cust_state: "MI",
                                cust_zip: "49006"
                        }
                },
        sale_date: "2020-12-20",
        purchase_time: "2020-12-20T09:34:21Z",
        equip_info:
                {
                equip_barcodeID: "TRT14SSW",
                equip_full_retail_price: 625,
                equip_type: "touring tandem",
                equip_class: "TRT",
                equip_condition: "insignificant cosmetic damage"
                },
        purchase_cost:
                {
                subtotal: "equip_purchase",
                tax:"0.06",
                 total_price: "purchase_price * 0.06"
                }
        })

//Doc 2, Sales_Receipt--
db.Sales_Receipt.insertOne({
        sale_id: 00299,
        customer_info:
                {
                cust_id: 1000546,
                cust_fname: "Joe",
                cust_lname: "Jupiter",
                cust_phone: 2695592222,
                cust_email: "joe.jupiter@wmich.edu",
                cust_address:
                        {
                        cust_street: "3718 West Main",
                        cust_city: "Kalamazoo",
                        cust_state: "MI",
                        cust_zip: "49006"
                        }
```

```
                },
        purchase_date: "2020-11-25",
        purchase_time: "2020-11-25T22:32:13Z",
        equip_info:
                {
                equip_barcodeID: "TRT14SSW",
                equip_full_retail_price: 625,
                equip_type: "touring tandem",
                equip_class: "TRT",
                equip_condition: "insignificant cosmetic damage"
                },
        purchase_cost:
                {
                subtotal: "equip_purchase",
                tax:"0.06",
                 total_price: "purchase_price * 0.06"
                }
        })

//Purchase Order Collection //last two equipments have wrong type ("CBS")
//Doc 1, Purchase_Order--
db.Purchase_Order.insertOne({
        PO_id: 00231,
        PO_date: "2020-03-04",
        CBS_reorder_count: 1,
        TRT_reorder_count: 2,
        equipments_ordered:
                [
{equip_barcodeID: "CBS26OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_full_retail_price: 450,
equip_condition: "new or like new", equip_status: "in stock"},
{equip_barcodeID: "TRT26OBE", equipment_type: "touring tandem", equip_class: "TRT", equip_full_retail_price: 625,
equip_condition: "new or like new", equip_status: "in stock"},
{equip_barcodeID: "TRT27OBE", equipment_type: "touring tandem", equip_class: "TRT", equip_full_retail_price: 625,
equip_condition: "new or like new", equip_status: "in stock"}
                ],
        supplier_info:
                {
                supplierID: 000456,
                company: "Decathalon",
                person_of_contact: "Alyssa Davis",
                telephone: 269827462,
                email: "a.davis@decathalon.com",
                office_number: 2694285769,
                address:
                        {
                        street: "6051 Constitution Blvd",
                        city: "Portage",
                        state: "MI",
                         zip: 49024
                        }
                }
        })
```

```
//Doc 2, Purchase_Order--
db.Purchase_Order.insertOne({
        PO_id: 00232,
        PO_date: "2020-10-04",
        CBS_reorder_count: 0,
        TRT_reorder_count: 2,
        equipments_ordered:
                [
{equip_barcodeID: "TRT28OBE", equipment_type: "touring tandem", equip_class: "TRT", equip_full_retail_price: 625,
equip_condition: "new or like new", equip_status: "in stock"},
{equip_barcodeID: "TRT29OBE", equipment_type: "touring tandem", equip_class: "TRT", equip_full_retail_price: 625,
equip_condition: "new or like new", equip_status: "in stock"}
                ],
        supplier_info:
                {
                supplierID: 000199,
                company: "Sports Direct",
                person_of_contact: "Austin Lee",
                telephone: 2698334124,
                email: "a.lee@sportsdirect.com",
                office_number: 2691239583,
                address:
                        {
                        street: "2923 W Michigan Ave",
                        city: "Kalamazoo",
                        state: "MI",
                         zip: 49006
                        }
                }
        })

//Process New Inventory Collection
//Doc 1, Process_New_Inventory--
db.Process_New_Inventory.insertOne(
        {
        PO_id: 00231,
        PO_date: "2020-03-04",
        equipments_ordered:
                [
{equip_barcodeID: "CBS26OBE", equipment_type: "creekboat single", equip_class: "CBS", equip_full_retail_price: 450,
equip_condition: "new or like new", equip_status: "in stock"},
{equip_barcodeID: "TRT26OBE", equipment_type: "touring tandem", equip_class: "CBS", equip_full_retail_price: 625,
equip_condition: "new or like new", equip_status: "in stock"},
{equip_barcodeID: "TRT27OBE", equipment_type: "touring tandem", equip_class: "CBS", equip_full_retail_price: 625,
equip_condition: "new or like new", equip_status: "in stock"}
                ],
        inventory_count_CBS: 26,
        inventory_count_TRT: 26,
        })

//Doc 2, Process_New_Inventory--
db.Process_New_Inventory.insertOne(
        {
        PO_id: 00232,
        PO_date: "2020-10-04",
```

```
        equipments_ordered:
                [
{equip_barcodeID: "TRT28OBE", equipment_type: "touring tandem", equip_class: "CBS", equip_full_retail_price: 625,
equip_condition: "new or like new", equip_status: "in stock"},
{equip_barcodeID: "TRT29OBE", equipment_type: "touring tandem", equip_class: "CBS", equip_full_retail_price: 625,
equip_condition: "new or like new", equip_status: "in stock"}
                ],
        inventory_count_CBS: 27,
        inventory_count_TRT: 25
        })
```

4. Use Find() and Limit() functions and pretty() method to retrieve and display 2 documents from each collection. Copy-and-paste results on the report.

//Customer

```
1  db.Customer.find().pretty().limit(2)
```

Output Redirect to File

```
1   {
2        "_id" : ObjectId("5fcc2b79768b233bb11ce2c4"),
3        "cust_id" : 1000001,
4        "cust_fname" : "Arayana",
5        "cust_lname" : "Janson",
6        "cust_phone" : 2695552222,
7        "cust_email" : "arayana.a.janson@wmich.edu",
8        "cust_address" : {
9            "cust_street" : "3713 West Main",
10           "cust_city" : "Kalamazoo",
11           "cust_state" : "MI",
12           "cust_zip" : 49006
13       },
14       "cust_history" : "yes",
15       "cust_rep" : {
16           "cust_history_value" : "bad",
17           "return_problem" : "yes",
18           "return_problem_details" : {
19               "return_id" : 6794857,
20               "equipments_rented" : [
21                   {
22                       "equip_barcodeID" : "CBS03OBE",
23                       "equipment_type" : "creekboat single",
24                       "equip_class" : "CBS",
25                       "equip_condition" : "insignificant cosmetic damage"
26                   },
27                   {
28                       "equip_barcodeID" : "CBS04OBE",
29                       "equipment_type" : "creekboat single",
30                       "equip_class" : "CBS",
31                       "equip_condition" : "insignificant cosmetic damage"
32                   }
33               ],
34               "equip_return_problem" : "late return",
35               "rental_date" : "2020-03-17",
36               "checkout_date" : "2020-03-17",
37               "return_date" : "2020-03-18",
38               "checkin_date" : "2020-03-19",
39               "deposit_amt_total" : 130,
40               "amount_owed" : 100,
41               "payment_method" : "cash",
42               "unreturned_equipment" : "no"
43           }
44       }
45  }
46  {
47       "_id" : ObjectId("5fcc2bfa768b233bb11ce2c5"),
48       "cust_id" : 1000002,
49       "cust_fname" : "Kimberly",
50       "cust_lname" : "Chong",
51       "cust_phone" : 2693332222,
52       "cust_email" : "kimberly.chong@wmich.edu",
53       "cust_address" : {
54           "cust_street" : "3709 West Main",
55           "cust_city" : "Kalamazoo",
56           "cust_state" : "MI",
57           "cust_zip" : 49006
58       },
59       "cust_history" : "yes",
60       "cust_rep" : "yes"
61  }
```

//Deposit_Retained

```
1  db.Deposit_Retained.find().pretty().limit(2)
```

Output | Redirect to File

```
1  {
2      "_id" : ObjectId("5fcc32b1768b233bb11ce2d0"),
3      "cust_id" : 1000001,
4      "return_id" : 7895432,
5      "equipments_rented" : [
6          {
7              "equip_barcodeID" : "CBS09OBE",
8              "equipment_type" : "creekboat single",
9              "equip_class" : "CBS",
10             "equip_condition" : "insignificant cosmetic damage"
11         },
12         {
13             "equip_barcodeID" : "CBS100BE",
14             "equipment_type" : "creekboat single",
15             "equip_class" : "CBS",
16             "equip_condition" : "insignificant cosmetic damage"
17         }
18     ],
19     "equip_return_problem" : "none",
20     "checkout_date" : "2020-11-28",
21     "return_date" : "2020-11-29",
22     "checkin_date" : "2020-11-30",
23     "amount_owed" : 0,
24     "deposit_amt_total" : 30,
25     "returned_deposit" : 30,
26     "payment_method" : "cash"
27 }
28 {
29     "_id" : ObjectId("5fcc32e2768b233bb11ce2d1"),
30     "cust_id" : 1000002,
31     "return_id" : 7895778,
32     "equipments_rented" : [
33         {
34             "equip_barcodeID" : "TRT23SSW",
35             "equipment_type" : "touring tandem",
36             "equip_class" : "TRT",
37             "equip_condition" : "new or like new"
38         },
39         {
40             "equip_barcodeID" : "TRT24SSW",
41             "equipment_type" : "touring tandem",
42             "equip_class" : "TRT",
43             "equip_condition" : "new or like new"
44         }
45     ],
46     "equip_return_problem" : "none",
47     "checkout_date" : "2020-12-13",
48     "return_date" : "2020-12-14",
49     "checkin_date" : "2020-12-14",
50     "amount_owed" : 0,
51     "deposit_amt_total" : 70,
52     "returned_deposit" : 70,
53     "payment_method" : "cash"
54 }
```

//Equipment

```
1  db.Equipment.find().pretty().limit(2)
```

Output | Redirect to File

```
1  {
2      "_id" : ObjectId("5fcc2994768b233bb11ce2c2"),
3      "equip_barcodeID" : "CBS09OBE",
4      "equip_type" : "creekboat single",
5      "equip_class" : "CBS",
6      "inventory_count_CBS" : 25,
7      "equiptypeCBS_count_instock" : 25,
8      "equip_status" : "in stock",
9      "storage_location" : "OBE",
10     "equip_condition" : "new or like new",
11     "equip_full_retail_price" : 450,
12     "equip_replace" : "no",
13     "equip_rental_price_per_day" : 50,
14     "equip_deposit_amt" : 15
15 }
16 {
17     "_id" : ObjectId("5fcc29d2768b233bb11ce2c3"),
18     "equip_barcodeID" : "CBS180BE",
19     "equip_type" : "creekboat single",
20     "equip_class" : "CBS",
21     "inventory_count_CBS" : 25,
22     "equiptypeCBS_count_instock" : 25,
23     "equip_status" : "in stock",
24     "storage_location" : "SSW",
25     "equip_condition" : "new or like new",
26     "equip_full_retail_price" : 450,
27     "equip_replace" : "no",
28     "equip_rental_price_per_day" : 50,
29     "equip_deposit_amt" : 15
30 }
```

//Equipment_Rental

```
1  db.Equipment_Rental.find().pretty().limit(2)
```

Output | Redirect to File

```
1  {
2      "_id" : ObjectId("5fcc2fc4768b233bb11ce2c8"),
3      "reservation_id" : 1234567,
4      "rental_id" : 5987654,
5      "equipments_rented" : [
6          {
7              "equip_barcodeID" : "CBS09OBE",
8              "equipment_type" : "creekboat single",
9              "equip_class" : "CBS",
10             "equip_condition" : "insignificant cosmetic damage",
11             "same_day" : "yes",
12             "storage_location" : "OBE",
13             "equip_status" : "rented",
14             "equip_rental_price_per_day" : 50,
15             "equip_deposit_amt" : 15
16         },
17         {
18             "equip_barcodeID" : "CBS09OBE",
19             "equipment_type" : "creekboat single",
20             "equip_class" : "CBS",
21             "equip_condition" : "insignificant cosmetic damage",
22             "same_day" : "yes",
23             "storage_location" : "OBE",
24             "equip_status" : "rented",
25             "equip_rental_price_per_day" : 50,
26             "equip_deposit_amt" : 15
27         }
28     ],
29     "rqstd_pickup_date" : "2020-11-28",
30     "rqstd_return_date" : "2020-11-29",
31     "checkout_date" : "2020-11-28",
32     "return_date" : "2020-11-29",
33     "equiptypeCBS_count_instock" : 23,
34     "total_deposit_amt" : 30,
35     "deposit_increase_interval" : 1.25,
36     "customer_info" : {
37         "cust_id" : 1000001,
38         "cust_fname" : "Arayana",
39         "cust_lname" : "Janson",
40         "cust_phone" : 2695552222,
41         "cust_email" : "arayana.a.janson@wmich.edu",
42         "cust_address" : {
43             "cust_street" : "3713 West Main",
44             "cust_city" : "Kalamazoo",
45             "cust_state" : "MI",
46             "cust_zip" : 49006
47         },
48         "cust_history" : "yes",
49         "cust_rep" : {
50             "cust_history_value" : "bad",
51             "return_problem" : "yes",
52             "return_problem_details" : {
53                 "return_id" : 6794857,
54                 "equipments_rented" : [
55                     {
56                         "equip_barcodeID" : "CBS03OBE",
57                         "equipment_type" : "creekboat single",
58                         "equip_class" : "CBS",
59                         "equip_condition" : "insignificant cosmetic dam
60                     },
61                     {
62                         "equip_barcodeID" : "CBS04OBE",
63                         "equipment_type" : "creekboat single",
64                         "equip_class" : "CBS",
65                         "equip_condition" : "insignificant cosmetic dam
66                     }
67                 ],
68                 "equip_return_problem" : "late return",
69                 "rental_date" : "2020-03-17",
70                 "checkout_date" : "2020-03-17",
71                 "return_date" : "2020-03-18",
72                 "checkin_date" : "2020-03-19",
```

```json
73              "deposit_amt_total" : 130,
74              "amount_owed" : 100,
75              "payment_method" : "cash",
76              "unreturned_equipment" : "no"
77          }
78      }
79  },
80  "amt_owed_resolved" : "yes",
81  "equip_total_rental_price_per_day" : 100,
82  "number_days_renting" : 1,
83  "payment_method" : "cash"
84  }
85  {
86      "_id" : ObjectId("5fcc3016768b233bb11ce2c9"),
87      "reservation_id" : 1235678,
88      "rental_id" : 5987782,
89      "equipments_rented" : [
90          {
91              "equip_barcodeID" : "TRT23SSW",
92              "equipment_type" : "touring tandem",
93              "equip_class" : "TRT",
94              "equip_condition" : "new or like new",
95              "same_day" : "no",
96              "storage_location" : "SSW",
97              "equip_status" : "rented",
98              "equip_rental_price_per_day" : 125,
99              "equip_deposit_amt" : 35
100         },
101         {
102             "equip_barcodeID" : "TRT24SSW",
103             "equipment_type" : "touring tandem",
104             "equip_class" : "TRT",
105             "equip_condition" : "new or like new",
106             "same_day" : "no",
107             "storage_location" : "SSW",
108             "equip_status" : "rented",
109             "equip_rental_price_per_day" : 125,
110             "equip_deposit_amt" : 35
111         }
112     ],
113     "rqstd_pickup_date" : "2020-12-13",
114     "rqstd_return_date" : "2020-12-14",
115     "checkout_date" : "2020-12-13",
116     "return_date" : "2020-12-14",
117     "equiptypeCBS_count_instock" : 22,
118     "total_deposit_amt" : 70,
119     "deposit_increase_interval" : 1.25,
120     "cust_info" : {
121         "cust_id" : 1000002,
122         "cust_fname" : "Kimberly",
123         "cust_lname" : "Chong",
124         "cust_phone" : 2693332222,
125         "cust_email" : "kimberly.chong@wmich.edu",
126         "cust_address" : {
127             "cust_street" : "3709 West Main",
128             "cust_city" : "Kalamazoo",
129             "cust_state" : "MI",
130             "cust_zip" : 49006
131         },
132         "cust_history" : "yes",
133         "cust_rep" : {
134             "cust_history_value" : "good",
135             "return_problem" : "no"
136         }
137     },
138     "equip_total_rental_price_per_day" : 250,
139     "number_days_renting" : 1,
140     "payment_method" : "cash"
141 }
```

//Equipment_Reservation

```
1  db.Equipment_Reservation.find().pretty().limit(2)
```

Output | Redirect to File

```
1   {
2       "_id" : ObjectId("5fcc2dac768b233bb11ce2c6"),
3       "cust_info" : {
4           "cust_id" : 1000001,
5           "cust_fname" : "Arayana",
6           "cust_lname" : "Janson",
7           "cust_phone" : 2695552222,
8           "cust_email" : "arayana.a.janson@wmich.edu",
9           "cust_address" : {
10              "cust_street" : "3713 West Main",
11              "cust_city" : "Kalamazoo",
12              "cust_state" : "MI",
13              "cust_zip" : 49006
14          },
15          "cust_history" : "yes",
16          "cust_rep" : {
17              "cust_history_value" : "bad",
18              "return_problem" : "yes",
19              "return_problem_details" : {
20                  "return_id" : 6794857,
21                  "equipments_rented" : [
22                      {
23                          "equip_barcodeID" : "CBS03OBE",
24                          "equipment_type" : "creekboat single",
25                          "equip_class" : "CBS",
26                          "equip_condition" : "insignificant cosmetic dam
27                      },
28                      {
29                          "equip_barcodeID" : "CBS04OBE",
30                          "equipment_type" : "creekboat single",
31                          "equip_class" : "CBS",
32                          "equip_condition" : "insignificant cosmetic dam
33                      }
34                  ],
35                  "equip_return_problem" : "late return",
36                  "rental_date" : "2020-03-17",
37                  "checkout_date" : "2020-03-17",
38                  "return_date" : "2020-03-18",
39                  "checkin_date" : "2020-03-19",
40                  "deposit_amt_total" : 130,
41                  "amount_owed" : 100,
42                  "payment_method" : "cash",
43                  "unreturned_equipment" : "no"
44              }
45          }
46      },
47      "reservation_id" : 1234567,
48      "reservation_date" : "2020-11-28",
49      "equipments_reserved" : [
50          {
51              "equip_barcodeID" : "CBS09OBE",
52              "equipment_type" : "creekboat single",
53              "equip_class" : "CBS",
54              "equip_condition" : "insignificant cosmetic damage",
55              "same_day" : "yes",
56              "storage_location" : "OBE",
57              "equip_status" : "in stock",
58              "equip_rental_price_per_day" : 50,
59              "equip_deposit_amt" : 15
60          },
61          {
62              "equip_barcodeID" : "CBS10OBE",
63              "equipment_type" : "creekboat single",
64              "equip_class" : "CBS",
65              "equip_condition" : "insignificant cosmetic damage",
66              "same_day" : "yes",
67              "storage_location" : "OBE",
68              "equip_status" : "in stock",
69              "equip_rental_price_per_day" : 50,
70              "equip_deposit_amt" : 15
71          }
72      ],
```

```
73          "equiptypeCBS_count_instock" : 25,
74          "rqstd_pickup_date" : "2020-11-28",
75          "rqstd_return_date" : "2020-11-29",
76          "total_deposit_amt" : 30,
77          "equip_available" : "yes",
78          "email_availability" : {
79              "equip_available" : "yes",
80              "cust_info" : {
81                  "cust_id" : 1000001,
82                  "cust_fname" : "Arayana",
83                  "cust_lname" : "Janson",
84                  "cust_phone" : 2695552222,
85                  "cust_email" : "arayana.a.janson@wmich.edu",
86                  "cust_address" : {
87                      "cust_street" : "3713 West Main",
88                      "cust_city" : "Kalamazoo",
89                      "cust_state" : "MI",
90                      "cust_zip" : 49006
91                  }
92              }
93          },
94          "equip_total_rental_price_per_day" : 100,
95          "payment_method" : "cash"
96  }
97  {
98      "_id" : ObjectId("5fcc2ed0768b233bb11ce2c7"),
99      "cust_info" : {
100         "cust_id" : 1000002,
101         "cust_fname" : "Kimberly",
102         "cust_lname" : "Chong",
103         "cust_phone" : 2693332222,
104         "cust_email" : "kimberly.chong@wmich.edu",
105         "cust_address" : {
106             "cust_street" : "3709 West Main",
107             "cust_city" : "Kalamazoo",
108             "cust_state" : "MI",
109             "cust_zip" : 49006
110         },
111         "cust_history" : "yes",
112         "cust_rep" : {
113             "cust_history_value" : "good",
114             "return_problem" : "no"
115         }
116     },
117     "reservation_id" : 1235678,
118     "reservation_date" : "2020-12-05",
119     "equipments_reserved" : [
120         {
121             "equip_barcodeID" : "TRT23SSW",
122             "equipment_type" : "touring tandem",
123             "equip_class" : "TRT",
124             "equip_condition" : "new or like new",
125             "same_day" : "no",
126             "storage_location" : "SSW",
127             "equip_status" : "in stock",
128             "equip_rental_price_per_day" : 125,
129             "equip_deposit_amt" : 35
130         },
131         {
132             "equip_barcodeID" : "TRT24SSW",
133             "equipment_type" : "touring tandem",
134             "equip_class" : "TRT",
135             "equip_condition" : "new or like new",
136             "same_day" : "no",
137             "storage_location" : "SSW",
138             "equip_status" : "in stock",
139             "equip_rental_price_per_day" : 125,
140             "equip_deposit_amt" : 35
141         }
142     ],
143     "equiptypeCBS_count_instock" : 24,
144     "rqstd_pickup_date" : "2020-12-13",
145     "rqstd_return_date" : "2020-12-14",
146     "total_deposit_amt" : 70,
147     "equip_available" : "yes",
148     "email_availability" : {
149         "equip_available" : "yes",
150         "cust_info" : {
151             "cust_id" : 1000002,
152             "cust_fname" : "Kimberly",
153             "cust_lname" : "Chong",
154             "cust_phone" : 2693332222,
155             "cust_email" : "kimberly.chong@wmich.edu",
156             "cust_address" : {
157                 "cust_street" : "3709 West Main",
158                 "cust_city" : "Kalamazoo",
159                 "cust_state" : "MI",
160                 "cust_zip" : 49006
161             }
162         }
163     },
164     "same_day" : "no",
165     "equip_total_rental_price_per_day" : 250,
166     "payment_method" : "cash"
167 }
```

//Equipment_Return

```
1  db.Equipment_Return.find().pretty().limit(2)
```

```
1   {
2       "_id" : ObjectId("5fcc31f8768b233bb11ce2ce"),
3       "cust_id" : 1000001,
4       "reservation_id" : 1234567,
5       "rental_id" : 5437682,
6       "return_id" : 7895432,
7       "return_timestamp" : "2020-11-29T09:17:09Z",
8       "rqstd_pickup_date" : "2020-11-28",
9       "rqstd_return_date" : "2020-11-29",
10      "checkout_date" : "2020-11-28",
11      "return_date" : "2020-11-30",
12      "checkin_date" : "2020-11-30",
13      "actual_return_time" : "ontime",
14      "rental_amts" : {
15          "equip_total_rental_price_per_day" : 100,
16          "total_deposit_amt" : 30,
17          "rental_tax" : 0.06,
18          "rental_grand_total" : 136
19      },
20      "equip_inspection" : "undamaged",
21      "degree_of_damage" : 0,
22      "late_fee" : {
23          "actual_return_time" : "ontime",
24          "days_late" : 0,
25          "rental_total" : 100
26      },
27      "damage_fee" : {
28          "equip_inspection" : "good",
29          "deposit_damage_portion" : 0,
30          "deposit_damage_retained" : 0
31      },
32      "deposit_retained" : {
33          "late_fee" : 0,
34          "damage_fee" : 0
35      },
36      "equipments_returned" : [
37          {
38              "equip_barcodeID" : "CBS09OBE",
39              "equipment_type" : "creekboat single",
40              "equip_class" : "CBS",
41              "equip_condition" : "insignificant cosmetic damage",
42              "same_day" : "yes",
43              "storage_location" : "OBE",
44              "equip_status" : "in stock",
45              "equip_rental_price_per_day" : 50,
46              "equip_deposit_amt" : 15
47          },
48          {
49              "equip_barcodeID" : "CBS09OBE",
50              "equipment_type" : "creekboat single",
51              "equip_class" : "CBS",
52              "equip_condition" : "insignificant cosmetic damage",
53              "same_day" : "yes",
54              "storage_location" : "OBE",
55              "equip_status" : "instock",
56              "equip_rental_price_per_day" : 50,
57              "equip_deposit_amt" : 15
58          }
59      ],
60      "cust_history_updated" : {
61          "cust_history" : "yes",
62          "cust_rep" : "no",
63          "equip_condition" : "already inventoried damage"
64      }
65  }
66  {
67      "_id" : ObjectId("5fcc3257768b233bb11ce2cf"),
68      "cust_id" : 1000002,
69      "reservation_id" : 1235678,
70      "rental_id" : 5987782,
71      "return_id" : 7895778,
72      "return_timestamp" : "2020-12-14T07:23:34Z",
```

```json
73          "rqstd_pickup_date" : "2020-12-13",
74          "rqstd_return_date" : "2020-12-14",
75          "checkout_date" : "2020-12-13",
76          "return_date" : "2020-12-14",
77          "checkin_date" : "2020-12-14",
78          "actual_return_time" : "ontime",
79          "rental_amts" : {
80              "equip_total_rental_price_per_day" : 250,
81              "total_deposit_amt" : 70,
82              "rental_tax" : 0.06,
83              "rental_grand_total" : 335
84          },
85          "equip_inspection" : "undamaged",
86          "degree_of_damage" : 0,
87          "late_fee" : {
88              "actual_return_time" : "ontime",
89              "days_late" : 0,
90              "rental_total" : 320
91          },
92          "damage_fee" : {
93              "equip_inspection" : "good",
94              "deposit_damage_portion" : 0,
95              "deposit_damage_retained" : 0
96          },
97          "deposit_retained" : {
98              "late_fee" : 0,
99              "damage_fee" : 0
100         },
101         "equipments_returned" : [
102             {
103                 "equip_barcodeID" : "TRT23SSW",
104                 "equipment_type" : "touring tandem",
105                 "equip_class" : "TRT",
106                 "equip_condition" : "new or like new",
107                 "same_day" : "no",
108                 "storage_location" : "SSW",
109                 "equip_status" : "in stock",
110                 "equip_rental_price_per_day" : 125,
111                 "equip_deposit_amt" : 35
112             },
113             {
114                 "equip_barcodeID" : "TRT24SSW",
115                 "equipment_type" : "touring tandem",
116                 "equip_class" : "TRT",
117                 "equip_condition" : "new or like new",
118                 "same_day" : "no",
119                 "storage_location" : "SSW",
120                 "equip_status" : "in stock",
121                 "equip_rental_price_per_day" : 125,
122                 "equip_deposit_amt" : 35
123             }
124         ],
125         "cust_history_updated" : {
126             "cust_history" : "yes",
127             "cust_rep" : "no",
128             "equip_condition" : "already inventoried damage"
129         }
130     }
```

//Equipment_Sale

```
1 db.Equipment_Sale.find().pretty().limit(2)
```

Output Redirect to File

```
 1  {
 2      "_id" : ObjectId("5fcc3337768b233bb11ce2d2"),
 3      "sale_id" : 283,
 4      "customer_info" : {
 5          "cust_id" : 1000001,
 6          "cust_fname" : "Arayana",
 7          "cust_lname" : "Janson",
 8          "cust_phone" : 2695552222,
 9          "cust_email" : "arayana.a.janson@wmich.edu",
10          "cust_address" : {
11              "cust_street" : "3713 West Main",
12              "cust_city" : "Kalamazoo",
13              "cust_state" : "MI",
14              "cust_zip" : "49006"
15          }
16      },
17      "equip_purchase" : {
18          "equip_barcodeID" : "TRT14SSW",
19          "equip_full_retail_price" : 625,
20          "equip_type" : "touring tandem",
21          "equip_class" : "TRT",
22          "equip_condition" : "insignificant cosmetic damage"
23      },
24      "sale_discount" : 0.6,
25      "sale_subtotal" : 375,
26      "sales_tax_interval" : 1.0625,
27      "sale_grandtotal" : 398,
28      "sale_date" : "2020-12-20",
29      "purchase_time" : "2020-12-20T09:34:21Z",
30      "payment_method" : "cash",
31      "sale_status" : "sold",
32      "equip_status" : "sold",
33      "equip_class" : "OOI",
34      "equiptypeTRT_count_instock" : 24,
35      "rqstd_pickup_date" : "2020-12-20"
36  }
37  {
38      "_id" : ObjectId("5fcc337d768b233bb11ce2d3"),
39      "sale_id" : 299,
40      "customer_info" : {
41          "cust_id" : 1000546,
42          "cust_fname" : "Joe",
43          "cust_lname" : "Jupiter",
44          "cust_phone" : 2695592222,
45          "cust_email" : "joe.jupiter@wmich.edu",
46          "cust_address" : {
47              "cust_street" : "3718 West Main",
48              "cust_city" : "Kalamazoo",
49              "cust_state" : "MI",
50              "cust_zip" : "49006"
51          }
52      },
53      "equip_purchase" : {
54          "equip_barcodeID" : "TRT02SSW",
55          "equip_full_retail_price" : 625,
56          "equip_type" : "touring tandem",
57          "equip_class" : "TRT",
58          "equip_condition" : "insignificant cosmetic damage"
59      },
60      "sale_discount" : 0.6,
61      "sale_subtotal" : 375,
62      "sales_tax_interval" : 1.0625,
63      "sale_grandtotal" : 398,
64      "sale_date" : "2020-11-25",
65      "purchase_time" : "2020-11-25T22:32:13Z",
66      "payment_method" : "cash",
67      "sale_status" : "sold",
68      "equip_status" : "sold",
69      "equip_class" : "OOI",
70      "equiptypeTRT_count_instock" : 23,
71      "rqstd_pickup_date" : "2020-11-25"
72  }
```

//Problem_With_Return

```
1  db.Problem_With_Return.find().pretty().limit(2)
```

Output Redirect to File

```
1  {
2      "_id" : ObjectId("5fcc3088768b233bb11ce2ca"),
3      "cust_id" : 1000001,
4      "return_id" : 6794857,
5      "equipments_rented" : [
6          {
7              "equip_barcodeID" : "CBS03OBE",
8              "equipment_type" : "creekboat single",
9              "equip_class" : "CBS",
10             "equip_condition" : "insignificant cosmetic damage"
11         },
12         {
13             "equip_barcodeID" : "CBS04OBE",
14             "equipment_type" : "creekboat single",
15             "equip_class" : "CBS",
16             "equip_condition" : "insignificant cosmetic damage"
17         }
18     ],
19     "equip_return_problem" : "late return",
20     "rental_date" : "2020-03-17",
21     "checkout_date" : "2020-03-17",
22     "return_date" : "2020-03-18",
23     "checkin_date" : "2020-03-19",
24     "amount_owed" : 100
25 }
26 {
27     "_id" : ObjectId("5fcc30ca768b233bb11ce2cb"),
28     "cust_id" : 1000500,
29     "return_id" : 5432123,
30     "equipments_rented" : [
31         {
32             "equip_barcodeID" : "CBS07OBE",
33             "equipment_type" : "creekboat single",
34             "equip_class" : "CBS",
35             "equip_condition" : "insignificant cosmetic damage"
36         },
37         {
38             "equip_barcodeID" : "TRT04OBE",
39             "equipment_type" : "touring tandem",
40             "equip_class" : "TRT",
41             "equip_condition" : "new or like new"
42         }
43     ],
44     "equip_return_problem" : "late return",
45     "rental_date" : "2020-04-22",
46     "checkout_date" : "2020-04-22",
47     "return_date" : "2020-04-23",
48     "checkin_date" : "2020-04-24",
49     "amount_owed" : 175
50 }
```

//Process_New_Inventory

```
1  db.Process_New_Inventory.find().pretty().limit(2)
```

Output Redirect to File

```
1  {
2      "_id" : ObjectId("5fcc3813768b233bb11ce2da"),
3      "PO_id" : 153,
4      "PO_date" : "2020-03-04",
5      "equipments_ordered" : [
6          {
7              "equip_barcodeID" : "CBS26OBE",
8              "equipment_type" : "creekboat single",
9              "equip_class" : "CBS",
10             "equip_full_retail_price" : 450,
11             "equip_condition" : "new or like new",
12             "equip_status" : "in stock"
13         },
14         {
15             "equip_barcodeID" : "TRT26OBE",
16             "equipment_type" : "touring tandem",
17             "equip_class" : "CBS",
18             "equip_full_retail_price" : 625,
19             "equip_condition" : "new or like new",
20             "equip_status" : "in stock"
21         },
22         {
23             "equip_barcodeID" : "TRT27OBE",
24             "equipment_type" : "touring tandem",
25             "equip_class" : "CBS",
26             "equip_full_retail_price" : 625,
27             "equip_condition" : "new or like new",
28             "equip_status" : "in stock"
29         }
30     ],
31     "inventory_count_CBS" : 26,
32     "inventory_count_TRT" : 26
33 }
34 {
35     "_id" : ObjectId("5fcc38c0768b233bb11ce2db"),
36     "PO_id" : 154,
```

```
37        "PO_date" : "2020-10-04",
38        "equipments_ordered" : [
39                {
40                        "equip_barcodeID" : "TRT28OBE",
41                        "equipment_type" : "touring tandem",
42                        "equip_class" : "CBS",
43                        "equip_full_retail_price" : 625,
44                        "equip_condition" : "new or like new",
45                        "equip_status" : "in stock"
46                },
47                {
48                        "equip_barcodeID" : "TRT29OBE",
49                        "equipment_type" : "touring tandem",
50                        "equip_class" : "CBS",
51                        "equip_full_retail_price" : 625,
52                        "equip_condition" : "new or like new",
53                        "equip_status" : "in stock"
54                }
55        ],
56        "inventory_count_CBS" : 27,
57        "inventory_count_TRT" : 25
58 }
```

//Purchase_Order

```
1  db.Purchase_Order.find().pretty().limit(2)
```

Output Redirect to File

```
1  {
2        "_id" : ObjectId("5fcc36ef768b233bb11ce2d8"),
3        "PO_id" : 153,
4        "PO_date" : "2020-03-04",
5        "CBS_reorder_count" : 1,
6        "TRT_reorder_count" : 2,
7        "equipments_ordered" : [
8                {
9                        "equip_barcodeID" : "CBS26OBE",
10                       "equipment_type" : "creekboat single",
11                       "equip_class" : "CBS",
12                       "equip_full_retail_price" : 450,
13                       "equip_condition" : "new or like new",
14                       "equip_status" : "in stock"
15               },
16               {
17                       "equip_barcodeID" : "TRT26OBE",
18                       "equipment_type" : "touring tandem",
19                       "equip_class" : "CBS",
20                       "equip_full_retail_price" : 625,
21                       "equip_condition" : "new or like new",
22                       "equip_status" : "in stock"
23               },
24               {
25                       "equip_barcodeID" : "TRT27OBE",
26                       "equipment_type" : "touring tandem",
27                       "equip_class" : "CBS",
28                       "equip_full_retail_price" : 625,
29                       "equip_condition" : "new or like new",
30                       "equip_status" : "in stock"
31               }
32       ],
33       "supplier_info" : {
34               "supplierID" : 302,
35               "company" : "Decathalon",
36               "person of contact" : "Alyssa Davis",
```

```
37              "telephone" : 269827462,
38              "email" : "a.davis@decathalon.com",
39              "office_number" : 2694285769,
40              "address" : {
41                  "street" : "6051 Constitution Blvd",
42                  "city" : "Portage",
43                  "state" : "MI",
44                  "zip" : 49024
45              }
46          }
47      }
48  {
49          "_id" : ObjectId("5fcc378b768b233bb11ce2d9"),
50          "PO_id" : 154,
51          "PO_date" : "2020-10-04",
52          "CBS_reorder_count" : 0,
53          "TRT_reorder_count" : 2,
54          "equipments_ordered" : [
55              {
56                  "equip_barcodeID" : "TRT28OBE",
57                  "equipment_type" : "touring tandem",
58                  "equip_class" : "TRT",
59                  "equip_full_retail_price" : 625,
60                  "equip_condition" : "new or like new",
61                  "equip_status" : "in stock"
62              },
63              {
64                  "equip_barcodeID" : "TRT29OBE",
65                  "equipment_type" : "touring tandem",
66                  "equip_class" : "TRT",
67                  "equip_full_retail_price" : 625,
68                  "equip_condition" : "new or like new",
69                  "equip_status" : "in stock"
70              }
71          ],
72          "supplier_info" : {
73              "supplierID" : 199,
74              "company" : "Sports Direct",
75              "person_of_contact" : "Austin Lee",
76              "telephone" : 2698334124,
77              "email" : "a.lee@sportsdirect.com",
78              "office_number" : 2691239583,
79              "address" : {
80                  "street" : "2923 W Michigan Ave",
81                  "city" : "Kalamazoo",
82                  "state" : "MI",
83                  "zip" : 49006
84              }
85          }
86  }
```

//Rental_Agreement

```
1  db.Rental_Agreement.find().pretty().limit(2)
```

Output Redirect to File

```
1  {
2          "_id" : ObjectId("5fcc311b768b233bb11ce2cc"),
3          "Header_Section" : {
4              "rental_id" : 5437682,
5              "checkout_date" : "2020-11-28",
6              "return_date" : "2020-11-29",
7              "customer_info" : {
8                  "cust_id" : 1000001,
9                  "cust_fname" : "Arayana",
10                 "cust_lname" : "Janson",
11                 "cust_phone" : 2695552222,
12                 "cust_email" : "arayana.a.janson@wmich.edu",
13                 "cust_address" : {
14                     "cust_street" : "3713 West Main",
15                     "cust_city" : "Kalamazoo",
16                     "cust_state" : "MI",
17                     "cust_zip" : "49006"
18                 }
19             }
20         },
21         "Detail_Section" : {
22             "equipments_rented" : [
23                 {
24                     "equip_barcodeID" : "CBS09OBE",
25                     "equipment_type" : "creekboat single",
26                     "equip_class" : "CBS",
27                     "equip_condition" : "insignificant cosmetic damage",
28                     "equip_rental_price_per_day" : 50,
29                     "equip_deposit_amt" : 15
30                 },
31                 {
32                     "equip_barcodeID" : "CBS10OBE",
33                     "equipment_type" : "creekboat single",
34                     "equip_class" : "CBS",
35                     "equip_condition" : "insignificant cosmetic damage",
36                     "equip_rental_price_per_day" : 50,
```

```
37              "equip_deposit_amt" : 15
38          }
39      ],
40      "total_deposit_amt" : 30,
41      "equip_total_rental_price_per_day" : 100,
42      "rental_tax" : 0.06,
43      "rental_total" : 106
44  },
45  "Footer_Section" : {
46      "rental_subtotal" : 100,
47      "deposit_subtotal" : 30,
48      "rental_tax" : 0.06,
49      "rental_grand_total" : 136
50  }
51  }
52  {
53      "_id" : ObjectId("5fcc3170768b233bb11ce2cd"),
54      "Header_Section" : {
55          "rental_id" : 5987782,
56          "checkout_date" : "2020-12-13",
57          "return_date" : "2020-12-14",
58          "cust_info" : {
59              "cust_id" : 1000002,
60              "cust_fname" : "Kimberly",
61              "cust_lname" : "Chong",
62              "cust_phone" : 2693332222,
63              "cust_email" : "kimberly.chong@wmich.edu",
64              "cust_address" : {
65                  "cust_street" : "3709 West Main",
66                  "cust_city" : "Kalamazoo",
67                  "cust_state" : "MI",
68                  "cust_zip" : 49006
69              }
70          }
71      },
72      "Detail Section" : {
73          "equipments_rented" : [
74              {
75                  "equip_barcodeID" : "TRT23SSW",
76                  "equipment_type" : "touring tandem",
77                  "equip_class" : "TRT",
78                  "equip_condition" : "new or like new",
79                  "same_day" : "no",
80                  "equip_rental_price_per_day" : 125,
81                  "equip_deposit_amt" : 35
82              },
83              {
84                  "equip_barcodeID" : "TRT24SSW",
85                  "equipment_type" : "touring tandem",
86                  "equip_class" : "TRT",
87                  "equip_condition" : "new or like new",
88                  "same_day" : "no",
89                  "equip_rental_price_per_day" : 125,
90                  "equip_deposit_amt" : 35
91              }
92          ],
93          "total_deposit_amt" : 70,
94          "equip_total_rental_price_per_day" : 250,
95          "rental_tax" : 0.06,
96          "rental_total" : 265
97      },
98      "Footer_Section" : {
99          "equip_total_rental_price_per_day" : 250,
100         "total_deposit_amt" : 70,
101         "rental_tax" : 0.06,
102         "rental_grand_total" : 335
103     }
104 }
```

//Sales_Payment

```
db.Sales_Payment.find().pretty().limit(2)
```

```
{
    "_id" : ObjectId("5fcc33d8768b233bb11ce2d4"),
    "sale_id" : 283,
    "customer_info" : {
        "cust_id" : 1000001,
        "cust_fname" : "Arayana",
        "cust_lname" : "Janson",
        "cust_phone" : 2695552222,
        "cust_email" : "arayana.a.janson@wmich.edu",
        "cust_address" : {
            "cust_street" : "3713 West Main",
            "cust_city" : "Kalamazoo",
            "cust_state" : "MI",
            "cust_zip" : "49006"
        }
    },
    "equip_purchase" : {
        "equip_barcodeID" : "TRT14SSW",
        "equip_full_retail_price" : 625,
        "equip_type" : "touring tandem",
        "equip_class" : "TRT",
        "equip_condition" : "insignificant cosmetic damage"
    },
    "payment" : "cash",
    "sale_date" : "2020-12-20",
    "purchase_time" : "2020-12-20T09:34:21Z",
    "sale_equip" : {
        "sale_discount" : 0.6,
        "sale_subtotal" : 375,
        "sales_tax_interval" : 1.0625,
        "sale_grandtotal" : 398
    },
    "rqstd_pickup_date" : "2020-12-20"
}
{
    "_id" : ObjectId("5fcc34ae768b233bb11ce2d5"),
    "sale_id" : 299,
    "customer_info" : {
        "cust_id" : 1000546,
        "cust_fname" : "Joe",
        "cust_lname" : "Jupiter",
        "cust_phone" : 2695592222,
        "cust_email" : "joe.jupiter@wmich.edu",
        "cust_address" : {
            "cust_street" : "3718 West Main",
            "cust_city" : "Kalamazoo",
            "cust_state" : "MI",
            "cust_zip" : "49006"
        }
    },
    "equip_purchase" : {
        "equip_barcodeID" : "TRT02SSW",
        "equip_full_retail_price" : 625,
        "equip_type" : "touring tandem",
        "equip_class" : "TRT",
        "equip_condition" : "insignificant cosmetic damage"
    },
    "payment" : "cash",
    "sale_date" : "2020-11-25",
    "purchase_time" : "2020-11-25T22:32:13Z",
    "sale_equip" : {
        "sale_discount" : 0.6,
        "sale_subtotal" : 375,
        "sales_tax_interval" : 1.0625,
        "sale_grandtotal" : 398
    },
    "rqstd_pickup_date" : "2020-11-25"
}
```

//Sales_Receipt

```
1  db.Sales_Receipt.find().pretty().limit(2)
```

Output | Redirect to File

```
1  {
2      "_id" : ObjectId("5fcc3528768b233bb11ce2d6"),
3      "sale_id" : 283,
4      "customer_info" : {
5          "cust_id" : 1000001,
6          "cust_fname" : "Arayana",
7          "cust_lname" : "Janson",
8          "cust_phone" : 2695552222,
9          "cust_email" : "arayana.a.janson@wmich.edu",
10         "cust_address" : {
11             "cust_street" : "3713 West Main",
12             "cust_city" : "Kalamazoo",
13             "cust_state" : "MI",
14             "cust_zip" : "49006"
15         }
16     },
17     "sale_date" : "2020-12-20",
18     "purchase_time" : "2020-12-20T09:34:21Z",
19     "equip_info" : {
20         "equip_barcodeID" : "TRT14SSW",
21         "equip_full_retail_price" : 625,
22         "equip_type" : "touring tandem",
23         "equip_class" : "TRT",
24         "equip_condition" : "insignificant cosmetic damage"
25     },
26     "purchase_cost" : {
27         "subtotal" : "equip_purchase",
28         "tax" : "0.06",
29         "total_price" : "purchase_price * 0.06"
30     }
31 }
32 {
33     "_id" : ObjectId("5fcc3570768b233bb11ce2d7"),
34     "sale_id" : 299,
35     "customer_info" : {
36         "cust_id" : 1000546,
37         "cust_fname" : "Joe",
38         "cust_lname" : "Jupiter",
39         "cust_phone" : 2695592222,
40         "cust_email" : "joe.jupiter@wmich.edu",
41         "cust_address" : {
42             "cust_street" : "3718 West Main",
43             "cust_city" : "Kalamazoo",
44             "cust_state" : "MI",
45             "cust_zip" : "49006"
46         }
47     },
48     "purchase_date" : "2020-11-25",
49     "purchase_time" : "2020-11-25T22:32:13Z",
50     "equip_info" : {
51         "equip_barcodeID" : "TRT14SSW",
52         "equip_full_retail_price" : 625,
53         "equip_type" : "touring tandem",
54         "equip_class" : "TRT",
55         "equip_condition" : "insignificant cosmetic damage"
56     },
57     "purchase_cost" : {
58         "subtotal" : "equip_purchase",
59         "tax" : "0.06",
60         "total_price" : "purchase_price * 0.06"
61     }
62 }
```