Priyan Fadhil Supriyadi
1. Insert
    1. Insert 5 operators pada table operators.

```
> db.operators.insertMany([
    {_id: 1, name: "Telkomsel"},
    {_id: 2, name: "Indosat"},
    {_id: 3, name: "By-U"},
    {_id: 4, name: "Tri"},
    {_id: 5, name: "XL"}
  ]);
< { acknowledged: true,
    insertedIds: { '0': 1, '1': 2, '2': 3, '3': 4, '4': 5 } }
digital_outlet >
```

    2. Insert 3 product type.

```
> db.product_type.insertMany([
    {_id: 1, name : "Pulsa"},
    {_id: 2, name : "Voucher Game"},
    {_id: 3, name : "Kuota"}
  ]);
< { acknowledged: true, insertedIds: { '0': 1, '1': 2, '2': 3 } }
digital_outlet >
```

    3. Insert 2 product dengan product type id = 1, dan operators id = 3.
    4. Insert 3 product dengan product type id = 2, dan operators id = 1.
    5. Insert 3 product dengan product type id = 3, dan operators id = 4.

```
db.products.insertMany([
  {
    _id : 1,
    product_type : 1,
    operator : 3,
    code : "b001",
    name : "dummy1",
    status : 1
  },
  {
    _id : 2,
    product_type : 1,
    operator : 3,
    code : "b002",
    name : "dummy2",
    status : 1
  },
  {
    _id : 3,
    product_type : 2,
    operator : 1,
    code : "b003",
    name : "dummy3",
    status : 1
  },
```

```
  {
    _id : 4,
    product_type : 2,
    operator : 1,
    code : "b004",
    name : "dummy4",
    status : 1
  },
  {
    _id : 5,
    product_type : 2,
    operator : 1,
    code : "b005",
    name : "dummy5",
    status : 1
  },
  {
    _id : 6,
    product_type : 3,
    operator : 4,
    code : "b006",
    name : "dummy6",
    status : 1
  },
  {
    _id : 7,
    product_type : 3,
    operator : 4,
    code : "b007",
    name : "dummy7",
    status : 1
  },
  {
    _id : 8,
    product_type : 3,
    operator : 4,
    code : "b008",
    name : "dummy8",
    status : 1
  },
]);
```

< { acknowledged: true,
    insertedIds: { '0': 1, '1': 2, '2': 3, '3': 4, '4': 5, '5': 6, '6': 7, '7': 8 } }
digital_outlet >

6. Insert product description pada setiap product.

```
> db.products.updateMany({},
  [
    {$set : {description : { $concat: ["dummy", " ", "$name"," ", "$code"]}}}
  ]);
< { acknowledged: true,
    insertedId: null,
    matchedCount: 8,
    modifiedCount: 8,
    upsertedCount: 0 }
digital_outlet >
```

7. Insert 3 payment methods.

```
> db.payment_methods.insertMany([
    {_id:1, name : "E-Money", status:1},
    {_id:2, name : "Bank", status:1},
    {_id:3, name : "Indomaret", status:1}
  ]);
< { acknowledged: true, insertedIds: { '0': 1, '1': 2, '2': 3 } }
digital_outlet >
```

8. Insert 5 user pada tabel user.

```
> db.users.insertMany([
    {_id : 1, name: "Priyan", status:1, dob: new Date("2000-06-01"), gender : 'M'},
    {_id : 2, name: "Fadhil", status:1, dob: new Date("2000-04-02"), gender : 'M'},
    {_id : 3, name: "Supriyadi", status:1, dob: new Date("2000-07-09"), gender : 'M'},
    {_id : 4, name: "Rachel", status:1, dob: new Date("2004-10-08"), gender : 'F'},
    {_id : 5, name: "Valerie", status:1, dob: new Date("2005-02-06"), gender : 'F'}
  ]);
< { acknowledged: true,
    insertedIds: { '0': 1, '1': 2, '2': 3, '3': 4, '4': 5 } }
digital_outlet >
```

9. Insert 3 transaksi di masing-masing user. (soal berlanjut ke soal 1.j)

```
> db.transactions.insertMany([
    {_id : 1, user:1, payment_method:1, status:1, total_qty:3, total_price:9000},
    {_id : 2, user:1, payment_method:2, status:1, total_qty:3, total_price:9000},
    {_id : 3, user:1, payment_method:3, status:1, total_qty:3, total_price:9000},
    {_id : 4, user:2, payment_method:1, status:1, total_qty:3, total_price:9000},
    {_id : 5, user:2, payment_method:2, status:1, total_qty:3, total_price:9000},
    {_id : 6, user:2, payment_method:3, status:1, total_qty:3, total_price:9000},
    {_id : 7, user:3, payment_method:1, status:1, total_qty:3, total_price:9000},
    {_id : 8, user:3, payment_method:2, status:1, total_qty:3, total_price:9000},
    {_id : 9, user:3, payment_method:3, status:1, total_qty:3, total_price:9000},
    {_id : 10, user:4, payment_method:1, status:1, total_qty:3, total_price:9000},
    {_id : 11, user:4, payment_method:2, status:1, total_qty:3, total_price:9000},
    {_id : 12, user:4, payment_method:3, status:1, total_qty:3, total_price:9000},
    {_id : 13, user:5, payment_method:1, status:1, total_qty:3, total_price:9000},
    {_id : 14, user:5, payment_method:2, status:1, total_qty:3, total_price:9000},
    {_id : 15, user:5, payment_method:3, status:1, total_qty:3, total_price:9000},
]);
< { acknowledged: true,
    insertedIds:
    { '0': 1,
      '1': 2,
      '2': 3,
      '3': 4
```

10. Insert 3 product di masing-masing transaksi.

```
db.transaction_details.insertMany([
  {_id:1, transaction:1, product:1, status:1, qty:1, price:3000},
  {_id:2, transaction:1, product:2, status:1, qty:1, price:3000},
  {_id:3, transaction:1, product:3, status:1, qty:1, price:3000},
  {_id:4, transaction:2, product:1, status:1, qty:1, price:3000},
  {_id:5, transaction:2, product:2, status:1, qty:1, price:3000},
  {_id:6, transaction:2, product:3, status:1, qty:1, price:3000},
  {_id:7, transaction:3, product:1, status:1, qty:1, price:3000},
  {_id:8, transaction:3, product:2, status:1, qty:1, price:3000},
  {_id:9, transaction:3, product:3, status:1, qty:1, price:3000},
  {_id:10, transaction:4, product:1, status:1, qty:1, price:3000},
  {_id:11, transaction:4, product:2, status:1, qty:1, price:3000},
  {_id:12, transaction:4, product:3, status:1, qty:1, price:3000},
  {_id:13, transaction:5, product:1, status:1, qty:1, price:3000},
  {_id:14, transaction:5, product:2, status:1, qty:1, price:3000},
  {_id:15, transaction:5, product:3, status:1, qty:1, price:3000},
  {_id:16, transaction:6, product:1, status:1, qty:1, price:3000},
  {_id:17, transaction:6, product:2, status:1, qty:1, price:3000},
  {_id:18, transaction:6, product:3, status:1, qty:1, price:3000},
  {_id:19, transaction:7, product:1, status:1, qty:1, price:3000},
  {_id:20, transaction:7, product:2, status:1, qty:1, price:3000},
  {_id:21, transaction:7, product:3, status:1, qty:1, price:3000},
  {_id:22, transaction:8, product:1, status:1, qty:1, price:3000},
  {_id:23, transaction:8, product:2, status:1, qty:1, price:3000},
  {_id:24, transaction:8, product:3, status:1, qty:1, price:3000},
  {_id:25, transaction:9, product:1, status:1, qty:1, price:3000},
  {_id:26, transaction:9, product:2, status:1, qty:1, price:3000},
  {_id:27, transaction:9, product:3, status:1, qty:1, price:3000},
  {_id:28, transaction:10, product:1, status:1, qty:1, price:3000},
  {_id:29, transaction:10, product:2, status:1, qty:1, price:3000},
```

```
{_id:30, transaction:10, product:3, status:1, qty:1, price:3000},
{_id:31, transaction:11, product:1, status:1, qty:1, price:3000},
{_id:32, transaction:11, product:2, status:1, qty:1, price:3000},
{_id:33, transaction:11, product:3, status:1, qty:1, price:3000},
{_id:34, transaction:12, product:1, status:1, qty:1, price:3000},
{_id:35, transaction:12, product:2, status:1, qty:1, price:3000},
{_id:36, transaction:12, product:3, status:1, qty:1, price:3000},
{_id:37, transaction:13, product:1, status:1, qty:1, price:3000},
{_id:38, transaction:13, product:2, status:1, qty:1, price:3000},
{_id:39, transaction:13, product:3, status:1, qty:1, price:3000},
{_id:40, transaction:14, product:1, status:1, qty:1, price:3000},
{_id:41, transaction:14, product:2, status:1, qty:1, price:3000},
{_id:42, transaction:14, product:3, status:1, qty:1, price:3000},
{_id:43, transaction:15, product:1, status:1, qty:1, price:3000},
{_id:44, transaction:15, product:2, status:1, qty:1, price:3000},
{_id:45, transaction:15, product:3, status:1, qty:1, price:3000},
])
```

```
    '36': 37,
    '37': 38,
    '38': 39,
    '39': 40,
    '40': 41,
    '41': 42,
    '42': 43,
    '43': 44,
    '44': 45 } }
digital_outlet >
```

2. Select
   1. Tampilkan nama user / pelanggan dengan gender Laki-laki / M.

```
> db.users.find({gender:"M"}).pretty()
< { _id: 1,
    name: 'Priyan',
    status: 1,
    dob: 2000-06-01T00:00:00.000Z,
    gender: 'M' }
  { _id: 2,
    name: 'Fadhil',
    status: 1,
    dob: 2000-04-02T00:00:00.000Z,
    gender: 'M' }
  { _id: 3,
    name: 'Supriyadi',
    status: 1,
    dob: 2000-07-09T00:00:00.000Z,
    gender: 'M' }
digital_outlet >
```

   2. Tampilkan product dengan id = 3.

```
> db.products.find({_id:3}).pretty()
< { _id: 3,
    product_type: 2,
    operator: 1,
    code: 'b003',
    name: 'dummy3',
    status: 1,
    description: 'dummy dummy3 b003' }
digital_outlet >
```

3. Tampilkan data pelanggan yang created_at dalam range 7 hari kebelakang dan mempunyai nama mengandung kata 'a'.
4. Hitung jumlah user / pelanggan dengan status gender Perempuan.

```
> db.users.find({gender:"F"}).count()

< 2

digital_outlet >
```

5. Tampilkan data pelanggan dengan urutan sesuai nama abjad

```
> db.users.find().sort({name:1})
< { _id: 2,
    name: 'Fadhil',
    status: 1,
    dob: 2000-04-02T00:00:00.000Z,
    gender: 'M' }
  { _id: 1,
    name: 'Priyan',
    status: 1,
    dob: 2000-06-01T00:00:00.000Z,
    gender: 'M' }
  { _id: 4,
    name: 'Rachel',
    status: 1,
    dob: 2004-10-08T00:00:00.000Z,
    gender: 'F' }
  { _id: 3,
    name: 'Supriyadi',
    status: 1,
    dob: 2000-07-09T00:00:00.000Z,
    gender: 'M' }
  { _id: 5,
    name: 'Valerie',
```

6. Tampilkan 5 data pada data product

```
> db.users.find().limit(5)
< { _id: 1,
    name: 'Priyan',
    status: 1,
    dob: 2000-06-01T00:00:00.000Z,
    gender: 'M' }
  { _id: 2,
    name: 'Fadhil',
    status: 1,
    dob: 2000-04-02T00:00:00.000Z,
    gender: 'M' }
  { _id: 3,
    name: 'Supriyadi',
    status: 1,
    dob: 2000-07-09T00:00:00.000Z,
    gender: 'M' }
  { _id: 4,
    name: 'Rachel',
    status: 1,
    dob: 2004-10-08T00:00:00.000Z,
    gender: 'F' }
  { _id: 5,
    name: 'Valerie',
```

3. Update
   1. Ubah data product id 1 dengan nama '*product dummy*'.

```
> db.products.update({_id:1}, {$set:{name:"product dummy"}})
< 'DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.'
< { acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0 }
digital_outlet >
```

   2. Update qty = 3 pada transaction detail dengan product id 1.

```
> db.products.update({_id:1}, {$set:{qty:3}})
< { acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0 }
digital_outlet >
```

4. Delete
   1. Delete data pada tabel product dengan id 1.

```
> db.products.remove({_id:1})
< 'DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.'
< { acknowledged: true, deletedCount: 1 }
digital_outlet >
```

   2. Delete pada pada tabel product dengan product type id 1.

```
> db.products.remove({product_type:1})
< { acknowledged: true, deletedCount: 1 }
digital_outlet >
```