WEEK-01

MySQL

Table Customer:

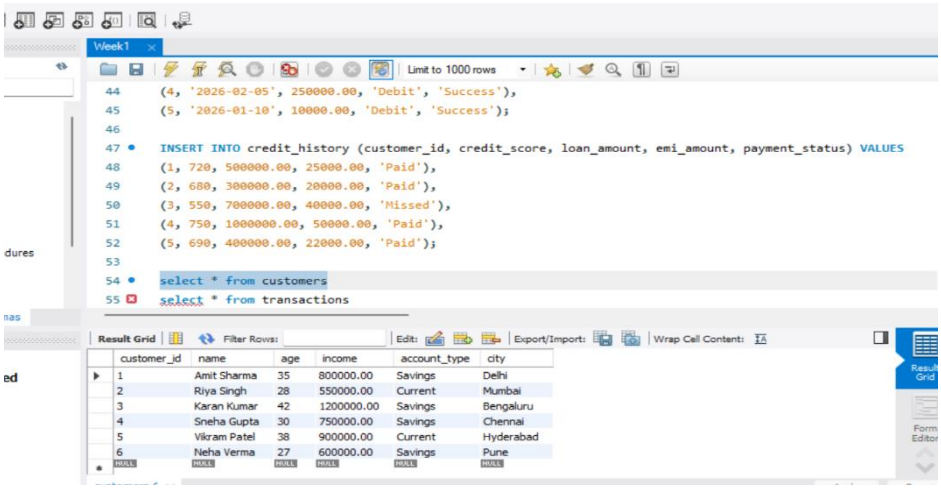


Table Transactions:

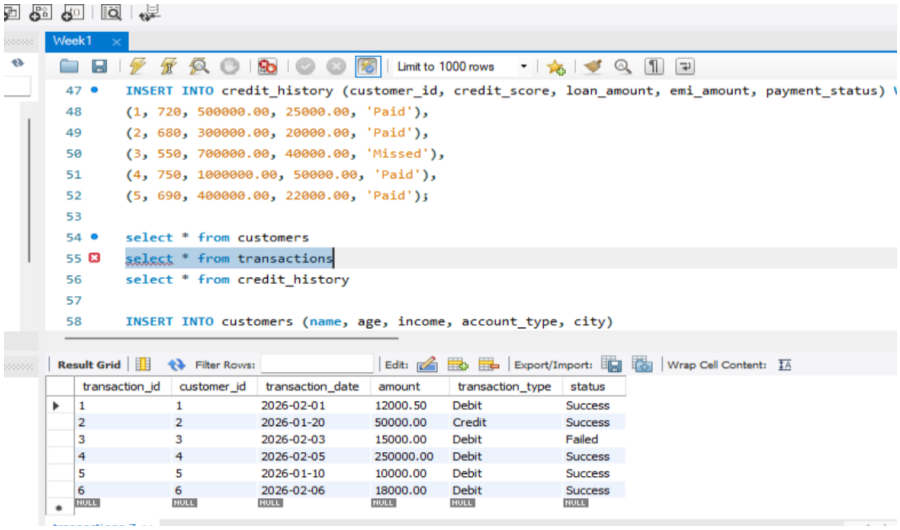
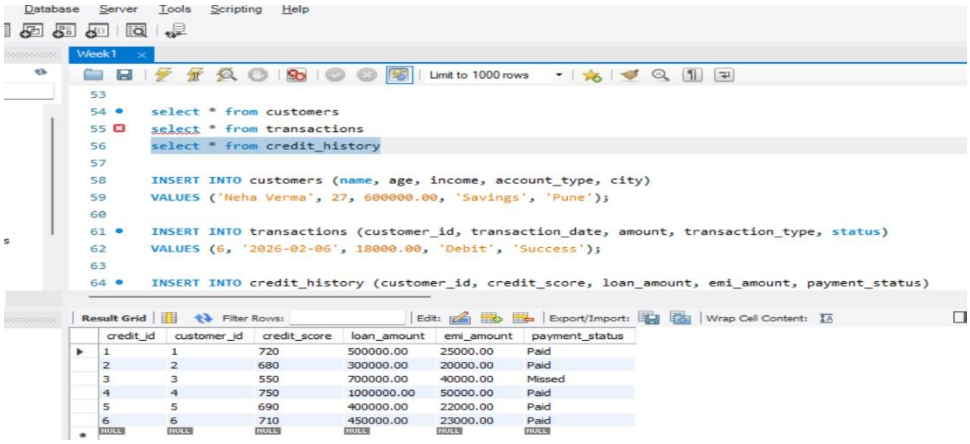
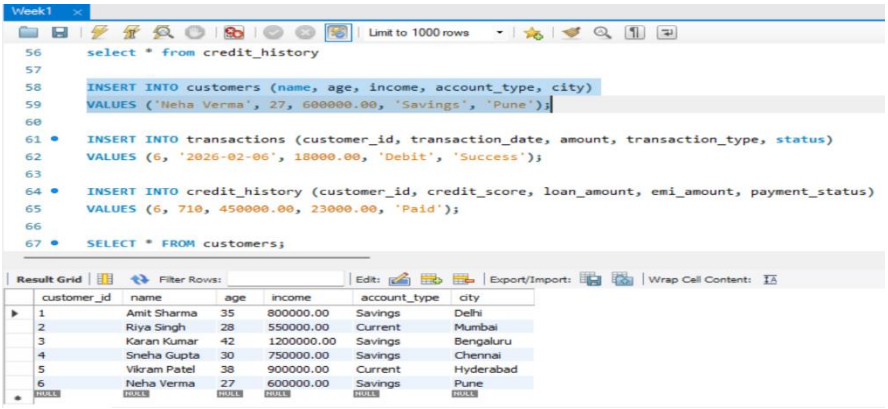


Table Credit_history:

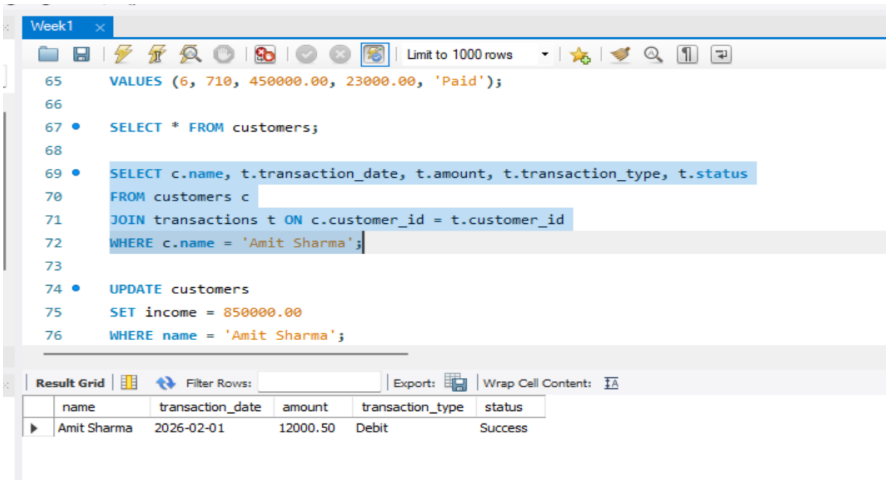


CRUD operations:

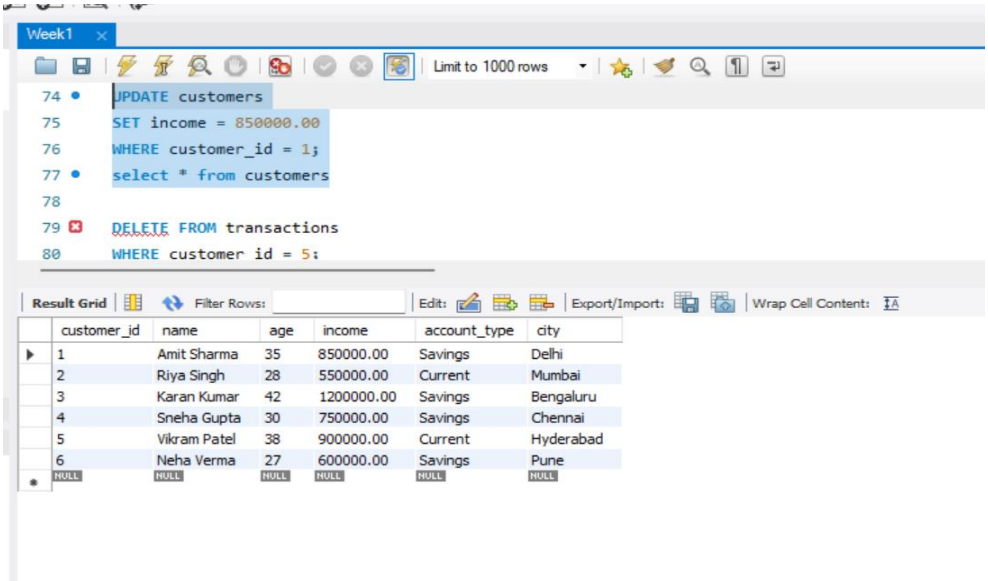
C-Create



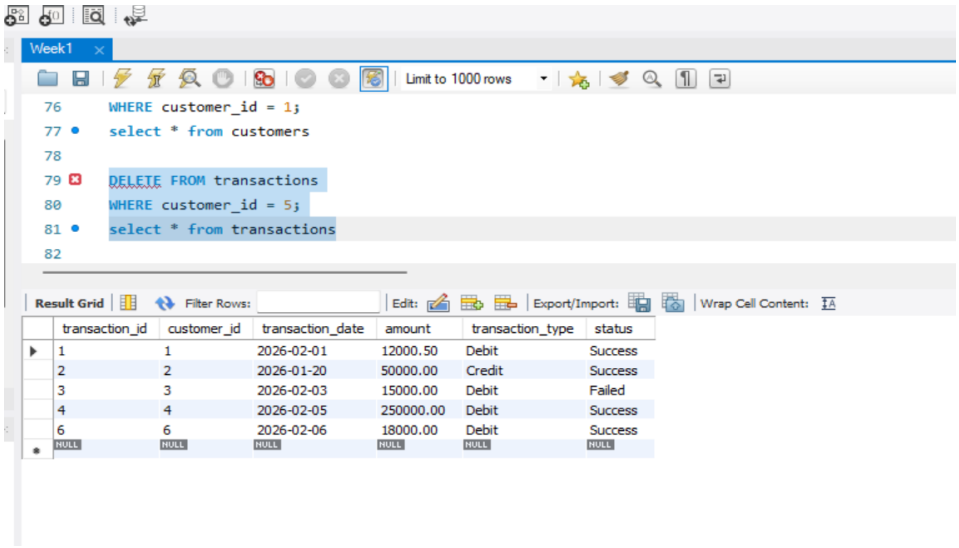
R-Retrive



U-Update



D-Delete



MongoDB

Password:pr@gathi_10

Table Customer

```
Atlas atlas-b61vpj-shard-0 [primary] banking_finance> db.customers.find()
[
  {
    _id: 1,
    name: 'Amit Sharma',
    age: 35,
    income: 800000,
    account_type: 'Savings',
    city: 'Delhi'
  },
  {
    _id: 2,
    name: 'Riya Singh',
    age: 28,
    income: 550000,
    account_type: 'Current',
    city: 'Mumbai'
  },
  {
    _id: 3,
    name: 'Karan Kumar',
    age: 42,
    income: 1200000,
    account_type: 'Savings',
    city: 'Bengaluru'
  },
  {
    _id: 4,
    name: 'Sneha Gupta',
    age: 30,
    income: 750000,
    account_type: 'Savings',
```

Table Transactions:

```
Atlas atlas-b61vpj-shard-0 [primary] banking_finance> db.transactions.find()
[
  {
    _id: ObjectId("6980b5520d91d3df61776b6a"),
    customer_id: 1,
    transaction_date: ISODate("2026-02-01T00:00:00.000Z"),
    amount: 12000.5,
    transaction_type: 'Debit',
    status: 'Success'
  },
  {
    _id: ObjectId("6980b5520d91d3df61776b6b"),
    customer_id: 2,
    transaction_date: ISODate("2026-01-20T00:00:00.000Z"),
    amount: 50000,
    transaction_type: 'Credit',
    status: 'Success'
  },
  {
    _id: ObjectId("6980b5520d91d3df61776b6c"),
    customer_id: 3,
    transaction_date: ISODate("2026-02-03T00:00:00.000Z"),
    amount: 15000,
    transaction_type: 'Debit',
    status: 'Failed'
  },
  {
    _id: ObjectId("6980b5520d91d3df61776b6d"),
    customer_id: 4,
    transaction_date: ISODate("2026-02-05T00:00:00.000Z"),
    amount: 250000,
    transaction_type: 'Debit',
    status: 'Success'
```

Table Credit_history

```
Atlas atlas-b61vpj-shard-0 [primary] banking_finance> db.credit_history.find()
[
  {
    _id: ObjectId("6980b55f0d91d3df61776b70"),
    customer_id: 1,
    credit_score: 720,
    loan_amount: 500000,
    emi_amount: 25000,
    payment_status: 'Paid'
  },
  {
    _id: ObjectId("6980b55f0d91d3df61776b71"),
    customer_id: 2,
    credit_score: 680,
    loan_amount: 300000,
    emi_amount: 20000,
    payment_status: 'Paid'
  },
  {
    _id: ObjectId("6980b55f0d91d3df61776b72"),
    customer_id: 3,
    credit_score: 550,
    loan_amount: 700000,
    emi_amount: 40000,
    payment_status: 'Missed'
  },
  {
    _id: ObjectId("6980b55f0d91d3df61776b73"),
    customer_id: 4,
    credit_score: 750,
    loan_amount: 1000000,
    emi_amount: 50000,
```

CRUD operations

C-Create

```
Atlas atlas-b61vpj-shard-0 [primary] test> use banking_finance
switched to db banking_finance
Atlas atlas-b61vpj-shard-0 [primary] banking_finance> db.customers.insertMany([
...   { _id: 1, name: "Amit Sharma", age: 35, income: 800000, account_type: "Savings", city: "Delhi" },
...   { _id: 2, name: "Riya Singh", age: 28, income: 550000, account_type: "Current", city: "Mumbai" },
...   { _id: 3, name: "Karan Kumar", age: 42, income: 1200000, account_type: "Savings", city: "Bengaluru" },
...   { _id: 4, name: "Sneha Gupta", age: 30, income: 750000, account_type: "Savings", city: "Chennai" },
...   { _id: 5, name: "Vikram Patel", age: 38, income: 900000, account_type: "Current", city: "Hyderabad" },
...   { _id: 6, name: "Neha Verma", age: 27, income: 600000, account_type: "Savings", city: "Pune" }
... ])
{
  acknowledged: true,
  insertedIds: { '0': 1, '1': 2, '2': 3, '3': 4, '4': 5, '5': 6 }
}
Atlas atlas-b61vpj-shard-0 [primary] banking_finance> db.transactions.insertMany([
...   { customer_id: 1, transaction_date: new Date("2026-02-01"), amount: 12000.50, transaction_type: "Debit", status: "Success" },
...   { customer_id: 2, transaction_date: new Date("2026-01-20"), amount: 50000.00, transaction_type: "Credit", status: "Success" },
...   { customer_id: 3, transaction_date: new Date("2026-02-03"), amount: 15000.00, transaction_type: "Debit", status: "Failed" },
...   { customer_id: 4, transaction_date: new Date("2026-02-05"), amount: 250000.00, transaction_type: "Debit", status: "Success" },
...   { customer_id: 5, transaction_date: new Date("2026-01-10"), amount: 10000.00, transaction_type: "Debit", status: "Success" },
...   { customer_id: 6, transaction_date: new Date("2026-02-06"), amount: 18000.00, transaction_type: "Debit", status: "Success" }
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6980b5520d91d3df61776b6a"),
    '1': ObjectId("6980b5520d91d3df61776b6b"),
    '2': ObjectId("6980b5520d91d3df61776b6c"),
    '3': ObjectId("6980b5520d91d3df61776b6d"),
    '4': ObjectId("6980b5520d91d3df61776b6e"),
    '5': ObjectId("6980b5520d91d3df61776b6f")
  }
}
```

R-Retrive

```
]
Atlas atlas-b61vpj-shard-0 [primary] banking_finance> db.transactions.find({ customer_id: 1 })
[
  {
    _id: ObjectId("6980b5520d91d3df61776b6a"),
    customer_id: 1,
    transaction_date: ISODate("2026-02-01T00:00:00.000Z"),
    amount: 12000.5,
    transaction_type: 'Debit',
    status: 'Success'
  }
]
```

U-Update

```
Atlas atlas-b61vpj-shard-0 [primary] banking_finance> db.customers.updateOne(
...   { _id: 1 },
...   { $set: { income: 850000 } }
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

D-Delete

```
Atlas atlas-b61vpj-shard-0 [primary] banking_finance> db.customers.deleteOne({ _id: 5 })
{ acknowledged: true, deletedCount: 1 }
```