

WEEK-01

MySQL

Table Customer:

The screenshot shows the MySQL Workbench interface with a query editor titled 'Week1'. The code entered is:

```
44 (4, '2026-02-05', 250000.00, 'Debit', 'Success'),
45 (5, '2026-01-10', 10000.00, 'Debit', 'Success');

46
47 • INSERT INTO credit_history (customer_id, credit_score, loan_amount, emi_amount, payment_status) VALUES
48 (1, 720, 500000.00, 25000.00, 'Paid'),
49 (2, 680, 300000.00, 20000.00, 'Paid'),
50 (3, 550, 700000.00, 40000.00, 'Missed'),
51 (4, 750, 1000000.00, 50000.00, 'Paid'),
52 (5, 690, 400000.00, 22000.00, 'Paid');
53
54 • select * from customers
55 • select * from transactions
```

The results grid shows the data inserted into the 'customers' table:

customer_id	name	age	income	account_type	city
1	Amit Sharma	35	800000.00	Savings	Delhi
2	Riya Singh	28	550000.00	Current	Mumbai
3	Karan Kumar	42	1200000.00	Savings	Bengaluru
4	Sneha Gupta	30	750000.00	Savings	Chennai
5	Vikram Patel	38	900000.00	Current	Hyderabad
6	Neha Verma	27	600000.00	Savings	Pune
• HULL	HULL	HULL	HULL	HULL	HULL

Table Transactions:

The screenshot shows the MySQL Workbench interface with a query editor titled 'Week1'. The code entered is:

```
47 • INSERT INTO credit_history (customer_id, credit_score, loan_amount, emi_amount, payment_status) VALUES
48 (1, 720, 500000.00, 25000.00, 'Paid'),
49 (2, 680, 300000.00, 20000.00, 'Paid'),
50 (3, 550, 700000.00, 40000.00, 'Missed'),
51 (4, 750, 1000000.00, 50000.00, 'Paid'),
52 (5, 690, 400000.00, 22000.00, 'Paid');
53
54 • select * from customers
55 • select * from transactions
56 • select * from credit_history
57
58 INSERT INTO customers (name, age, income, account_type, city)
```

The results grid shows the data inserted into the 'transactions' table:

transaction_id	customer_id	transaction_date	amount	transaction_type	status
1	1	2026-02-01	12000.50	Debit	Success
2	2	2026-01-20	50000.00	Credit	Success
3	3	2026-02-03	15000.00	Debit	Failed
4	4	2026-02-05	250000.00	Debit	Success
5	5	2026-01-10	10000.00	Debit	Success
6	6	2026-02-06	18000.00	Debit	Success
• HULL	HULL	HULL	HULL	HULL	HULL

Table Credit_history:

The screenshot shows the MySQL Workbench interface with a query editor titled 'Week1'. The code entered is:

```
53
54 • select * from customers
55 • select * from transactions
56 • select * from credit_history
57
58 INSERT INTO customers (name, age, income, account_type, city)
VALUES ('Neha Verma', 27, 600000.00, 'Savings', 'Pune');
59
60
61 • INSERT INTO transactions (customer_id, transaction_date, amount, transaction_type, status)
VALUES (6, '2026-02-06', 18000.00, 'Debit', 'Success');
62
63
64 • INSERT INTO credit_history (customer_id, credit_score, loan_amount, emi_amount, payment_status)
```

The results grid shows the data inserted into the 'credit_history' table:

credit_id	customer_id	credit_score	loan_amount	emi_amount	payment_status
1	1	720	500000.00	25000.00	Paid
2	2	680	300000.00	20000.00	Paid
3	3	550	700000.00	40000.00	Missed
4	4	750	1000000.00	50000.00	Paid
5	5	690	400000.00	22000.00	Paid
6	6	710	450000.00	23000.00	Paid
• HULL	HULL	HULL	HULL	HULL	HULL

CRUD operations:

C-Create

The screenshot shows the MySQL Workbench interface with a query editor window titled "Week1". The code entered is:

```
56 select * from credit_history
57
58 INSERT INTO customers (name, age, income, account_type, city)
59 VALUES ('Neha Verma', 27, 600000.00, 'Savings', 'Pune');
60
61 • INSERT INTO transactions (customer_id, transaction_date, amount, transaction_type, status)
62 VALUES (6, '2026-02-06', 18000.00, 'Debit', 'Success');
63
64 • INSERT INTO credit_history (customer_id, credit_score, loan_amount, emi_amount, payment_status)
65 VALUES (6, 710, 450000.00, 23000.00, 'Paid');
66
67 • SELECT * FROM customers;
```

The result grid displays the following data:

customer_id	name	age	income	account_type	city
1	Amit Sharma	35	800000.00	Savings	Delhi
2	Riya Singh	28	550000.00	Current	Mumbai
3	Karan Kumar	42	1200000.00	Savings	Bengaluru
4	Sneha Gupta	30	750000.00	Savings	Chennai
5	Vikram Patel	38	900000.00	Current	Hyderabad
6	Neha Verma	27	600000.00	Savings	Pune
*	HULL	HULL	HULL	HULL	HULL

R-Retrieve

The screenshot shows the MySQL Workbench interface with a query editor window titled "Week1". The code entered is:

```
65 VALUES (6, 710, 450000.00, 23000.00, 'Paid');
66
67 • SELECT * FROM customers;
68
69 • SELECT c.name, t.transaction_date, t.amount, t.transaction_type, t.status
70 FROM customers c
71 JOIN transactions t ON c.customer_id = t.customer_id
72 WHERE c.name = 'Amit Sharma';
73
74 • UPDATE customers
75 SET income = 850000.00
76 WHERE name = 'Amit Sharma';
```

The result grid displays the following data:

name	transaction_date	amount	transaction_type	status
Amit Sharma	2026-02-01	12000.50	Debit	Success

U-Update

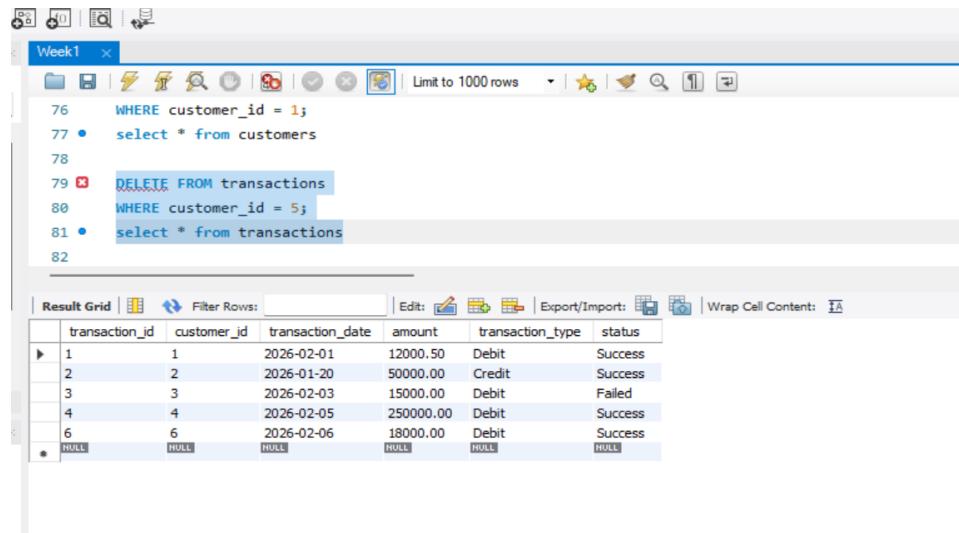
The screenshot shows the MySQL Workbench interface with a query editor window titled "Week1". The code entered is:

```
74 • UPDATE customers
75 SET income = 850000.00
76 WHERE customer_id = 1;
77 • select * from customers
78
79 ✘ DELETE FROM transactions
80 WHERE customer_id = 5;
```

The result grid displays the following data:

customer_id	name	age	income	account_type	city
1	Amit Sharma	35	850000.00	Savings	Delhi
2	Riya Singh	28	550000.00	Current	Mumbai
3	Karan Kumar	42	1200000.00	Savings	Bengaluru
4	Sneha Gupta	30	750000.00	Savings	Chennai
5	Vikram Patel	38	900000.00	Current	Hyderabad
6	Neha Verma	27	600000.00	Savings	Pune
*	HULL	HULL	HULL	HULL	HULL

D-Delete



The screenshot shows a MySQL Workbench interface. In the query editor, a transaction is being run. The code is as follows:

```
76 WHERE customer_id = 1;
77 • select * from customers
78
79 ✘ DELETE FROM transactions
80 WHERE customer_id = 5;
81 • select * from transactions
82
```

The result grid displays the following data:

	transaction_id	customer_id	transaction_date	amount	transaction_type	status
▶	1	1	2026-02-01	12000.50	Debit	Success
	2	2	2026-01-20	50000.00	Credit	Success
	3	3	2026-02-03	15000.00	Debit	Failed
	4	4	2026-02-05	250000.00	Debit	Success
	6	6	2026-02-06	18000.00	Debit	Success
*	HULL	HULL	HULL	HULL	HULL	HULL

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: 25000,
    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,
    payment_status: 'Paid'
  }
]
```

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 }
```