

UC 1:

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| adaptnxt_db
| ems
| hibernate_db
| information_schema
| jdbc_peojects
| mysql
| payroll_service
| performance_schema
| school
| sms
| sys
| tap
+-----+
12 rows in set (0.04 sec)
```

UC 2:

```
mysql> USE payroll_service;
Database changed
mysql> CREATE TABLE employee_payroll (
    ->     id INT AUTO_INCREMENT PRIMARY KEY,
    ->     name VARCHAR(100),
    ->     salary DOUBLE,
    ->     start DATE
    -> );
Query OK, 0 rows affected (0.06 sec)
```

UC 3:

```
mysql> INSERT INTO employee_payroll (name, salary, start)
-> VALUES
-> ('Bill', 100000.00, '2018-01-03'),
-> ('Charlie', 120000.00, '2019-11-13'),
-> ('Terisa', 150000.00, '2018-01-03');
Query OK, 3 rows affected (0.03 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> |
```

UC4:

```
mysql> SELECT * FROM employee_payroll;
+----+-----+-----+-----+
| id | name   | salary | start   |
+----+-----+-----+-----+
| 1  | Bill    | 100000 | 2018-01-03 |
| 2  | Charlie | 120000 | 2019-11-13 |
| 3  | Terisa  | 150000 | 2018-01-03 |
+----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> |
```

UC5:

```

+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> SELECT salary
   -> FROM employee_payroll
   -> WHERE name = 'Bill';
+-----+
| salary |
+-----+
| 100000 |
+-----+
1 row in set (0.01 sec)

mysql> SELECT *
   -> FROM employee_payroll
   -> WHERE start BETWEEN CAST('2018-01-01' AS DATE) AND DATE(NOW());
+---+-----+-----+-----+
| id | name    | salary | start      |
+---+-----+-----+-----+
| 1  | Bill     | 100000 | 2018-01-03 |
| 2  | Charlie  | 120000 | 2019-11-13 |
| 3  | Terisa   | 150000 | 2018-01-03 |
+---+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> |

```

UC6:

```

3 rows in set (0.01 sec)

mysql> ALTER TABLE employee_payroll
   -> ADD gender CHAR(1) AFTER name;
Query OK, 0 rows affected (0.03 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> UPDATE employee_payroll
   -> SET gender = 'M'
   -> WHERE name = 'Bill' OR name = 'Charlie';
Query OK, 2 rows affected (0.02 sec)
Rows matched: 2  Changed: 2  Warnings: 0

mysql>
mysql> UPDATE employee_payroll
   -> SET gender = 'F'
   -> WHERE name = 'Terisa';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql>
```

UC7:

```
1 rows matched. 1 changed. 1 warning

mysql> SELECT gender, SUM(salary)
   -> FROM employee_payroll
   -> GROUP BY gender;
+-----+-----+
| gender | SUM(salary) |
+-----+-----+
| M     |      220000 |
| F     |      150000 |
+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> SELECT gender, AVG(salary)
   -> FROM employee_payroll
   -> GROUP BY gender;
+-----+-----+
| gender | AVG(salary) |
+-----+-----+
| M     |      110000 |
| F     |      150000 |
+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> SELECT gender, MIN(salary)
-> FROM employee_payroll
-> GROUP BY gender;
+-----+-----+
| gender | MIN(salary) |
+-----+-----+
| M      |      100000 |
| F      |      150000 |
+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> SELECT gender, MAX(salary)
-> FROM employee_payroll
-> GROUP BY gender;
+-----+-----+
| gender | MAX(salary) |
+-----+-----+
| M      |      120000 |
| F      |      150000 |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT gender, COUNT(*)
--> FROM employee_payroll
--> GROUP BY gender;
+-----+-----+
| gender | COUNT(*) |
+-----+-----+
| M      |      2 |
| F      |      1 |
+-----+-----+
2 rows in set (0.00 sec)

mysql> CREATE DATABASE address_book_service;
```

ADDRESSBOOK PROBLEM:

UC1:

```
mysql> CREATE DATABASE address_book_service;
Query OK, 1 row affected (0.02 sec)

mysql> USE address_book_service;
Database changed
mysql> |
```

UC2:

```
Database changed
mysql> CREATE TABLE address_book (
    ->     id INT AUTO_INCREMENT PRIMARY KEY,
    ->     first_name VARCHAR(50),
    ->     last_name VARCHAR(50),
    ->     address VARCHAR(150),
    ->     city VARCHAR(50),
    ->     state VARCHAR(50),
    ->     zip VARCHAR(10),
    ->     phone_number VARCHAR(15),
    ->     email VARCHAR(100)
    -> );
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> |
```

UC3:

```
mysql> INSERT INTO address_book
-> (first_name, last_name, address, city, state, zip, phone_number, email)
-> VALUES
-> ('John', 'Doe', 'MG Road', 'Bangalore', 'Karnataka', '560001', '9876543210', 'john@gmail.com'),
-> ('Jane', 'Smith', 'Park Street', 'Mumbai', 'Maharashtra', '400001', '9123456780', 'jane@gmail.com');
Query OK, 2 rows affected (0.03 sec)
Records: 2  Duplicates: 0  Warnings: 0
mysql> |
```

UC4:

```
mysql> UPDATE address_book
    -> SET phone_number = '9999999999'
    -> WHERE first_name = 'John';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql>
```

UC5:

```
mysql> UPDATE address_book
      -> SET phone_number = '9999999999'
      -> WHERE first_name = 'John';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1    Changed: 1    Warnings: 0

mysql>
```

UC6:

```
mysql> SELECT * FROM address_book
      -> WHERE city = 'Bangalore';
+----+-----+-----+-----+-----+-----+-----+
| id | first_name | last_name | address | city     | state   | zip    | phone_number | email
+----+-----+-----+-----+-----+-----+-----+
|  1 | John       | Doe        | MG Road | Bangalore | Karnataka | 560001 | 9999999999 | john@gmail.com |
+----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> |
```

UC7:

```

mysql> SELECT city, COUNT(*)
-> FROM address_book
-> GROUP BY city;
+-----+-----+
| city      | COUNT(*) |
+-----+-----+
| Bangalore |      1 |
| Mumbai    |      1 |
+-----+-----+
2 rows in set (0.00 sec)

mysql> SELECT state, COUNT(*)
-> FROM address_book
-> GROUP BY state;
+-----+-----+
| state      | COUNT(*) |
+-----+-----+
| Karnataka |      1 |
| Maharashtra |      1 |
+-----+-----+
2 rows in set (0.00 sec)

mysql> |

```

UC8:

```

mysql> SELECT *
-> FROM address_book
-> WHERE city = 'Bangalore'
-> ORDER BY first_name ASC;
+-----+-----+-----+-----+-----+-----+-----+-----+
| id | first_name | last_name | address | city      | state     | zip      | phone_number | email      |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1  | John       | Doe        | MG Road | Bangalore | Karnataka | 560001 | 9999999999 | john@gmail.com |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

mysql> |

```

UC9:

```

+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

mysql> ALTER TABLE address_book
-> ADD book_name VARCHAR(50),
-> ADD book_type VARCHAR(50);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> UPDATE address_book
-> SET book_name = 'PersonalBook', book_type = 'Friends'
-> WHERE first_name = 'John';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> |

```

UC10:

```

mysql> SELECT book_type, COUNT(*)
-> FROM address_book
-> GROUP BY book_type;
+-----+-----+
| book_type | COUNT(*) |
+-----+-----+
| Friends   |      1 |
| NULL      |      1 |
+-----+-----+
2 rows in set (0.00 sec)

mysql> |

```

UC11:

```

mysql> INSERT INTO address_book
-> (first_name, last_name, address, city, state, zip, phone_number, email, book_name, book_type)
-> VALUES
-> ('Alex', 'Roy', 'BTM Layout', 'Bangalore', 'Karnataka', '560076', '9012345678', 'alex@gmail.com', 'PersonalBook', 'Friends'),
-> ('Alex', 'Roy', 'BTM Layout', 'Bangalore', 'Karnataka', '560076', '9012345678', 'alex@gmail.com', 'PersonalBook', 'Family');
Query OK, 2 rows affected (0.02 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> |

```

