Dbms_lab command query:

```
mysql -u root
Show databases;
Use database_name;
Show tables:
Desc tableName;
CREATE DATABASE databasename;
DROP DATABASE databasename;
CREATE TABLE table_name (
      column1 datatype,
      column2 datatype,
     column3 datatype....
);
CREATE TABLE Persons (
     ID int NOT NULL UNIQUE/ ID int PRIMARY KEY,
     LastName varchar(255) NOT NULL,
     FirstName varchar(255),
     Age int CHECK (Age>=18),
     PRIMARY KEY (ID)
CREATE TABLE Orders (
     OrderID int NOT NULL PRIMARY KEY,
     OrderNumber int NOT NULL,
     PersonID int FOREIGN KEY REFERENCES Persons(PersonID)
);
CREATE TABLE new_table_name AS
  SELECT column1, column2,...
  FROM existing_table_name
  WHERE ....;
INSERT INTO table_name values
(.....),
(....);
DROP TABLE table_name;
```

```
TRUNCATE/DELETE TABLE table_name;
ALTER TABLE table_name
ADD column_name datatype;
ALTER TABLE table_name
DROP COLUMN column_name;
ALTER TABLE table_name
RENAME COLUMN old_name to new_name;
SELECT *FROM table_name;
SELECT column1, column2, ...
FROM table_name;
SELECT DISTINCT Country FROM Customers;
SELECT column1, column2, ...
FROM table name
WHERE condition;
SELECT * FROM Customers
WHERE Country='Mexico';
SELECT column1, column2, ...
FROM table_name
ORDER BY column1, column2, ... ASC|DESC;
SELECT column1, column2, ... FROM table_name
WHERE condition1 AND condition2 AND condition3 ...;
SELECT * FROM Customers
WHERE Country = 'Spain' AND CustomerName LIKE 'G%';
SELECT * FROM Customers
WHERE CustomerName NOT LIKE 'A%';
SELECT * FROM Customers
WHERE NOT Country = 'Spain'
```

```
SELECT * FROM Customers
WHERE City NOT IN ('Paris', 'London');
INSERT INTO table_name (column1, column2, column3, ...)
VALUES (value1, value2, value3, ...);
INSERT INTO table_name
VALUES (value1, value2, value3, ...);
UPDATE table_name SET column1 = value1, column2 = value2, ...
WHERE condition;
DELETE FROM table_name WHERE condition;
DELETE FROM Customers WHERE CustomerName='Alfreds Futterkiste';
DELETE FROM table_name;
SELECT MIN(column_name)
FROM table name
WHERE condition;
SELECT column1, column2, ...
FROM table name
WHERE columnN LIKE pattern;
SELECT * FROM Customers
WHERE city LIKE 'L_nd__';
SELECT * FROM Customers
WHERE city LIKE '%L%';
The IN operator is a shorthand for multiple OR conditions.
SELECT column_name(s)
FROM table_name
WHERE column_name IN (value1, value2, ...);
SELECT * FROM Customers
WHERE Country IN ('Germany', 'France', 'UK');
SELECT column_name(s)
```

```
FROM table_name
WHERE column_name BETWEEN value1 AND value2;

SELECT * FROM Products
WHERE Price BETWEEN 10 AND 20;
```

```
Aggregate functions
SELECT avg(salary) FROM instructor WHERE dept_name = 'Comp. Sci.;
SELECT COUNT(distinct dept_name) FROM instructor;
SELECT COUNT(*) AS num_row FROM instructor;
Rename:
RENAME table1 to table2;
Create trigger:
      DELIMITER //
      Create Trigger before_insert_occupation
      BEFORE INSERT ON employee FOR EACH ROW
      BEGIN
      IF NEW.occupation = 'Scientist' THEN SET NEW.occupation = 'Doctor';
     END IF;
  END //
      DELIMITER;
Drop trigger [if exists] trigger_name;
      DELIMITER //
      Create Trigger after_insert_details
```

```
AFTER INSERT ON student info FOR EACH ROW
 BEGIN
 INSERT INTO student_detail VALUES (new.stud_id, new.stud_code,
 new.stud_name, new.subject, new.marks, new.phone, CURTIME());
 END //
 DELIMITER $$
 CREATE TRIGGER before_update_salesInfo
 BEFORE UPDATE
 ON sales_info FOR EACH ROW
 BEGIN
  DECLARE error_msg VARCHAR(255);
   SET error_msg = ('The new quantity cannot be greater than 2 times the current
 quantity');
  IF new.quantity > old.quantity * 2 THEN
  SIGNAL SQLSTATE '45000'
  SET MESSAGE_TEXT = error_msg;
  END IF;
 END $$
DELIMITER $$
 CREATE TRIGGER after_update_studentsInfo
AFTER UPDATE
 ON students FOR EACH ROW
 BEGIN
```

```
INSERT into students_log VALUES (user(),
CONCAT('Update Student Record', OLD.name, 'Previous Class:',
      OLD.class, 'Present Class', NEW.class));
    END $$
     UPDATE sales_info SET quantity = 125 WHERE id = 2;
    DELIMITER $$
    CREATE TRIGGER before_delete_salaries
    BEFORE DELETE
    ON salaries FOR EACH ROW
    BEGIN
      INSERT INTO salary_archives (emp_num, valid_from, amount)
     VALUES(OLD. emp_num, OLD.valid_from, OLD.amount);
    END$$
    DELETE FROM salaries WHERE emp_num = 105;
    DELIMITER $$
    CREATE TRIGGER after_delete_salaries
    AFTER DELETE
    ON salaries FOR EACH ROW
    BEGIN
     UPDATE total_salary_budget SET total_budget = total_budget - old.amount;
```

END\$\$

User create:
Create user 'test1'@'localhost' Identified by '1223';
Grant all privileges
On databaseName.tableName
To 'test'@'localhost';
Flush privileges

Drop user 'test1'@'localhost'