MODEL PRACTICAL EXAMINATION

7.

```
mysql> CREATE TABLE Department (
-> department_id INT PRIMARY KEY,
-> department_name VARCHAR(100)
-> );
Query OK, 0 rows affected (0.04 sec)

mysql> CREATE TABLE Employee (
-> employee_id INT PRIMARY KEY,
-> employee_name VARCHAR(100),
-> salary DECIMAL(10, 2),
-> department_id INT,
-> manager_id INT,
-> manager_id INT,
-> location VARCHAR(100));
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> INSERT INTO Department (department_id, department_name) values
    -> (1,'HR'),
    -> (2,'Finance'),
    -> (3,'Marketing');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> INSERT INTO Employee (employee_id, employee_name, salary, department_id, manager_id, location) values
    -> (1, 'Josh', 60000.00, 1, 3, 'Delhi');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Employee (employee_id, employee_name, salary, department_id, manager_id, location) values
    -> (2, 'Yash', 75000.00, 1, NULL, 'Chennai'),
    -> (3, 'Surya', 45000.00, 2, 6, 'Delhi'),
    -> (4, 'Vinay', 50000.00, 2, 6, 'Delhi'),
    -> (5, 'Vaishu', 85000.00, 2, NULL, 'Delhi');
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> select * from Employee;
   employee_id | employee_name | salary
                                                         | department_id | manager_id | location |
                                                                           1 |
1 |
2 |
2 |
2 |
                                           75000.00
45000.00
                     Yash
Surya
                                                                                         NULL
                                                                                                   Chennai
                                                                                                  Delhi
                4 | Vinay
5 | Vaishu
                                           50000.00
85000.00
                                                                                                  Mangalore
Delhi
                                                                                         NULL
5 rows in set (0.01 sec)
mysql> Select * from Department;
 department_id | department_name |
                   2 | Finance
3 | Marketing
3 rows in set (0.00 sec)
mysql> select e.employee_name
   -> from Employee e
   -> join Employee m ON e.manager_id = m.employee_id
   -> where e.salary > m.salary;
 employee_name |
  Josh
1 row in set (0.01 sec)
```

```
mysql> select e.employee_name
-> from Employee e
       -> join(
-> select department_id, MAX(salary) AS Maxsalary
        -> from Employee
       -> group by department_id
-> group by department_id = max_salaries.department_id AND e.salary = max_salaries.Maxsalary;
  employee_name
     Yash
    Vaishu
 2 rows in set (0.01 sec)
 mysql> select e1.employee_name, e2.employee_name, e1.location
mysql> select e1.employee_name, e2.employee_name, e1.location
--> from Employee e1, Employee e2
--> where e1.employee_id <> e2.employee_id
--> AND e1.location = e2.location;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '> e2.employee_id

AND e1.location = e2.location' at line 3
mysql> SELECT e1.employee_name, e2.employee_name, e1.location
--> FROM Employee e1
--> INNER JOIN Employee e2 ON e1.location = e2.location AND e1.employee_id < e2.employee_id;
   employee_name | employee_name | location |
                                  Surya
Vaishu
                                                                 Delhi
Delhi
Delhi
     Josh
     Surya
                                  Vaishu
    rows in set (0.01 sec)
```