DATA ANALYSIS SQL JOB SIMULATION

```
mysql> CREATE TABLE EMPLOYEES1 (
    ->     Education VARCHAR(50),
    ->     JoiningYear INT,
    ->     City VARCHAR(100),
    ->     PaymentTier INT,
    ->     Age INT,
    ->     Gender VARCHAR(10),
    ->     EverBenched VARCHAR(5),
    ->     ExperienceInCurrentDomain INT,
    ->     LeaveOrNot INT
    -> );
Query OK, 0 rows affected (0.03 sec)


mysql> INSERT INTO EMPLOYEES1 VALUES
    -> ('Bachelors', 2017, 'Bangalore', 3, 34, 'Male', 'No', 0, 0),
    -> ('Bachelors', 2013, 'Pune', 1, 28, 'Female', 'No', 3, 1),
    -> ('Bachelors', 2014, 'New Delhi', 3, 38, 'Female', 'No', 2, 0),
    -> ('Masters', 2016, 'Bangalore', 3, 27, 'Male', 'No', 5, 1),
    -> ('Masters', 2017, 'Pune', 3, 24, 'Male', 'Yes', 2, 1);
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0



mysql> -- Task 1: Male employees, never benched, younger than 30
mysql> SELECT * FROM EMPLOYEES1
    -> WHERE Gender = 'Male' AND EverBenched = 'No' AND Age < 30;
+-----------+-------------+-----------+-------------+------+--------+-------------+-------------------------+------------+
| Education | JoiningYear | City      | PaymentTier | Age  | Gender | EverBenched |
ExperienceInCurrentDomain | LeaveOrNot |
```

```
+-----------+-------------+-----------+-------------+------+--------+-------------+--------------------------+------------+
| Masters   |       2016 | Bangalore |         3 |   27 | Male   | No          |                    5 |          1 |
+-----------+-------------+-----------+-------------+------+--------+-------------+--------------------------+------------+
1 row in set (0.00 sec)

mysql>
mysql> -- Task 2: Average age of employees who left
mysql> SELECT AVG(Age) AS avg_age_left FROM EMPLOYEES1
    -> WHERE LeaveOrNot = 1;
+--------------+
| avg_age_left |
+--------------+
|      26.3333 |
+--------------+
1 row in set (0.00 sec)

mysql>
mysql> -- Task 3: Employees grouped by education with >1 year experience
mysql> SELECT Education, COUNT(*) AS count_employees
    -> FROM EMPLOYEES1
    -> WHERE ExperienceInCurrentDomain > 1
    -> GROUP BY Education;
+-----------+-----------------+
| Education | count_employees |
+-----------+-----------------+
| Bachelors |               2 |
| Masters   |               2 |
+-----------+-----------------+
2 rows in set (0.00 sec)

mysql>
```

```
mysql> -- Task 4: Rank cities by number of employees
mysql> SELECT City, COUNT(*) AS num_employees
    -> FROM EMPLOYEES1
    -> GROUP BY City
    -> ORDER BY num_employees DESC;
+-----------+---------------+
| City      | num_employees |
+-----------+---------------+
| Bangalore |             2 |
| Pune      |             2 |
| New Delhi |             1 |
+-----------+---------------+
3 rows in set (0.00 sec)

mysql>
```