**GRADABLE ASSIGNMENT – III (MYSQL)**

**Questions:**

1. Write SQL command to create a database named hremployeeDB and a table named HR\_Employee with columns for EmployeeID, Department, JobRole, Attrition, Gender, Age, MaritalStatus, Education, EducationField, BusinessTravel, JobInvolvement, JobLevel, JobSatisfaction, Hourlyrate, Income, Salaryhike, OverTime, Workex, YearsSinceLastPromotion, EmpSatisfaction, TrainingTimesLastYear, WorkLifeBalance, Performance\_Rating, and set EmployeeID as the primary key.

Dataset description:

* **EmployeeID**: Row ID
* **Department**: Sales, Research & Development, Human Resources,
* **JobRole**: Sales Executive, Research Scientist, Laboratory Technician, Manufacturing Director, Manager, Sales Representative, Healthcare Representative, Human Resources, Research Director,
* **Attrition**: Process of reducing company's strength. YES→ the employee has left the company OR terminated, and No→ Still working.
* **Age**: Age of employee
* **Gender**: Gender of employee
* **MaritalStatus**: Married, Divorced, Single
* **EducationField**: Human Resources, Life Sciences, Marketing, Medical, Technical Degree, Other.
* **BusinessTravel:** Non-Travel, Travel\_Frequently, Travel\_Rarely
* **JobInvolvement:** High, Low, Medium, Very High
* **JobLevel:** 1, 2, 3, 4, 5
* **JobSatisfaction**: High, Low, Medium, Very High
* **Hourlyrate**: 30 - 100
* **Income**: It ranges from 1009 to 19999
* **Salaryhike**:  11 - 25
* **OverTime**: Yes, No.
* **Workex**: 0 - 40
* **YearsSinceLastPromotion**: 0 - 15
* **EmpSatisfaction**: High, Low, Medium, Very High
* **TrainingTimesLastYear**:  0 - 6
* **WorkLifeBalance**: Good, Better, Best, Bad
* **Performance\_Rating**: Excellent, Outstanding

1. Return the shape of the table
2. Show the count of Employee & percentage Workforce in each Department.
3. Which gender have higher strength as workforce in each department?
4. Show the workforce in each Job Role
5. Show Distribution of Employee's Age Group.
6. Compare all marital status of employee and find the most frequent marital status.
7. What is Job satisfaction level of employee?
8. How frequently employee is going on Business Trip.
9. Show the Department with Highest Attrition Rate (Percentage)
10. Show the Job Role with Highest Attrition Rate (Percentage)
11. Show Distribution of Employee's Promotion, Find the maximum chances of employee getting promoted.
12. Find the Attrition Rate for Marital Status.
13. Find the Attrition Count & Percentage for Different Education Levels
14. Find the Attrition & Percentage Attrition for Business Travel.
15. Find the Attrition & Percentage Attrition for Various JobInvolvement
16. Show Attrition Rate for Different JobSatisfaction.
17. Find key reasons for Attrition in Company.
18. Return all employee where WorkEx greater than 10, provided that they travel frequently, WorkLifeBalance as Good and JobSatisfaction is Very High.
19. Write query to display who has better WorkLifeBalance , Married, Single or Divorced provided that Performace\_Rating is Outstanding.