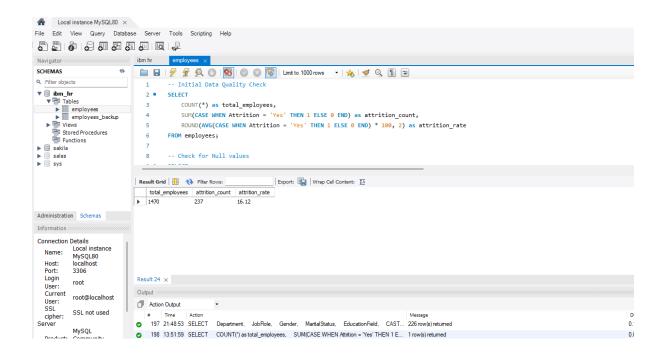
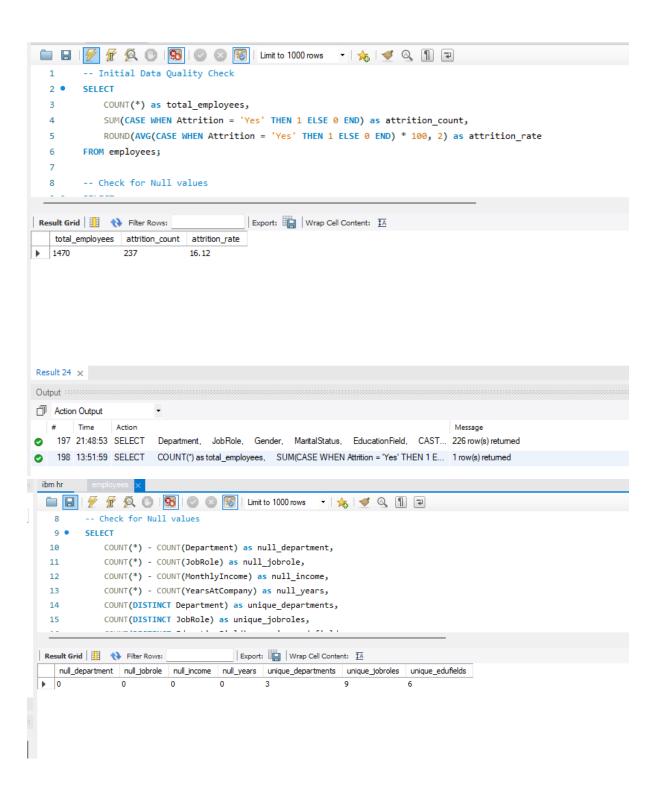
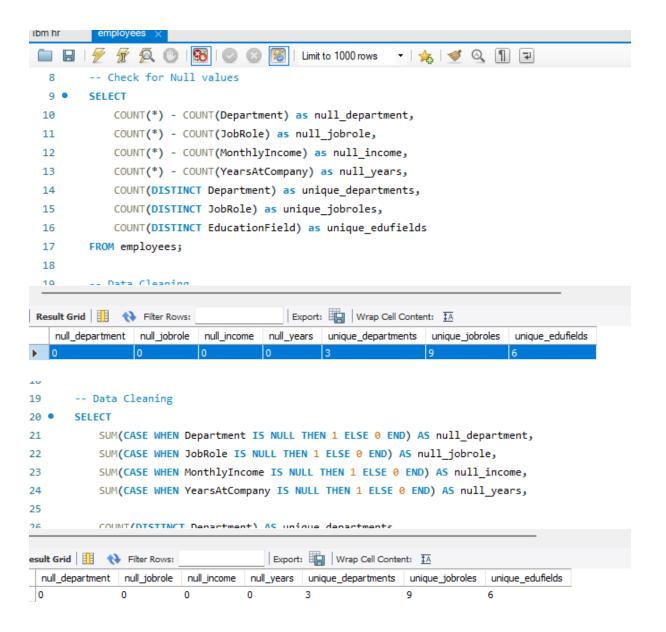
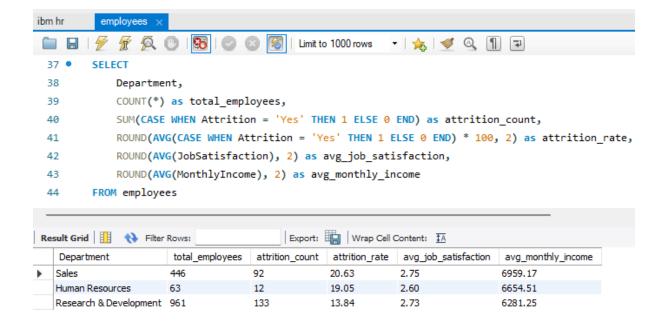
```
9 •
       SELECT
 10
            COUNT(*) - COUNT(Department) as null_department,
            COUNT(*) - COUNT(JobRole) as null jobrole,
 11
            COUNT(*) - COUNT(MonthlyIncome) as null_income,
 12
            COUNT(*) - COUNT(YearsAtCompany) as null_years,
 13
            COUNT(DISTINCT Department) as unique_departments,
            COUNT(DISTINCT JobRole) as unique_jobroles,
 15
 16
             COUNT(DISTINCT EducationField) as unique_edufields
Export: Wrap Cell Content: 1A
   null_department | null_jobrole | null_income | null_years | unique_departments | unique_jobroles | unique_edufields
▶ 0
                0
                           0
                                     0
                                               3
                                                                              6
```



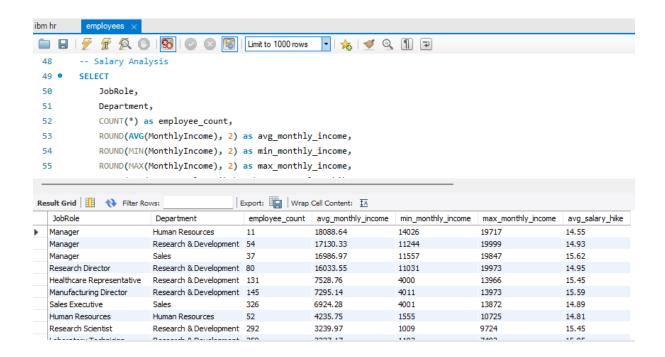


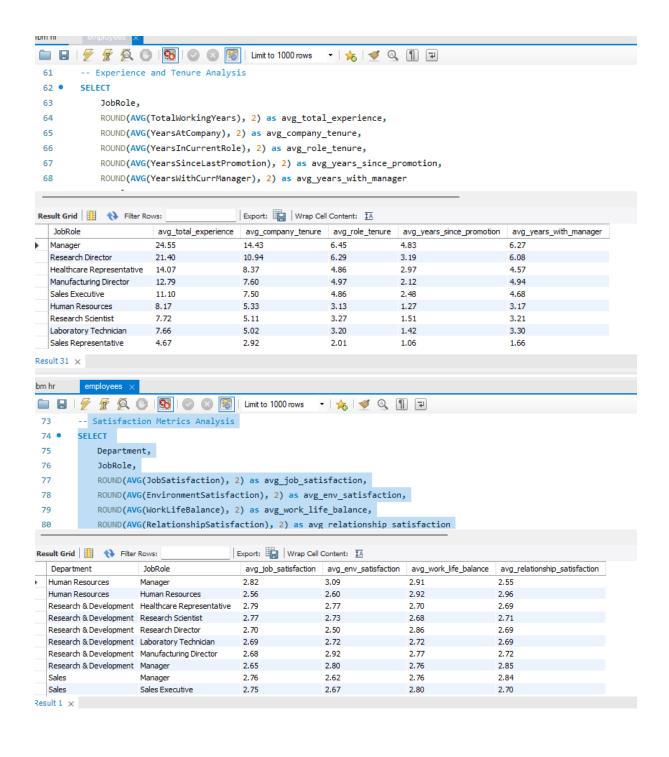




-- Create backup table

CREATE TABLE employees_backup AS SELECT * FROM
 employees;





```
15
16
       -- Work-Life Balance Impact
17 • SELECT
18
          WorkLifeBalance,
          COUNT(*) as employee_count,
19
           ROUND(AVG(CASE WHEN Attrition = 'Yes' THEN 1 ELSE 0 END) * 100, 2) as attrition rate,
           ROUND(AVG(JobSatisfaction), 2) as avg_job_satisfaction,
21
           ROUND(AVG(MonthlyIncome), 2) as avg_monthly_income,
22
           ROUND(AVG(TotalWorkingYears), 2) as avg_working_years
esult Grid 🔢 🚷 Filter Rows:
                                      Export: Wrap Cell Content: IA
  WorkLifeBalance employee_count attrition_rate avg_job_satisfaction avg_monthly_income avg_working_years
               80
                             31.25
                                        2.65
                                                         5887.14
                                                                          10.68
 1
 2
              344
                             16.86
                                        2.84
                                                         6461.81
                                                                          11.55
 3
               893
                             14.22
                                                         6532.23
                                                                          11.23
                                        2.69
 4
               153
                             17.65
                                        2.75
                                                         6746.35
                                                                          11.31
  🚞 🖫 | 🗲 🖟 👰 🕛 | 🔞 | 💿 🔘 🔞 | Limit to 1000 rows 🔻 | 🌟 | 🥩 🔍 🗻 📦
  126
          ORDER BY WorkLifeBalance;
  127
          -- Career Development Analysis
  128
  129 • SELECT
  130
              Department,
              JobLevel,
  131
              ROUND(AVG(TrainingTimesLastYear), 2) as avg_training_times,
  132
  133
              ROUND(AVG(YearsSinceLastPromotion), 2) as avg_years_since_promotion,
  134
              COUNT(*) as employee_count,
             SUM(CASE WHEN Attrition = 'Yes' THEN 1 ELSE 0 END) as attrition_count
  135
  136
          FROM employees
  137
          GROUP BY Department, JobLevel
                                         Export: Wrap Cell Content: IA
 JobLevel avg_training_times avg_years_since_promotion employee_count attrition_count
   Department
 Human Resources
                              2.62
                                                                    13
                                                                                 0
    Human Resources 2
                                              1.15
    Human Resources
                       3
                               1.83
                                              1.83
                                                                    6
                                                                                  2
    Human Resources 4
                                              2.75
                             3.00
                                                                    4
                                                                                 0
  Human Resources
                       5
                               2.29
                                              5.00
                                                                    7
                                                                                 0
 Result 5 ×
```

```
-- Create view for dashboard reporting
141 • CREATE VIEW vw_employee_summary AS
142
    SELECT
143
        Department,
       JobRole,
       COUNT(*) as total_employees,
       ROUND(AVG(MonthlyIncome), 2) as avg_salary,
147
       ROUND<mark>(AVG(</mark>YearsAtCompany), 2) as avg_tenure,
       ROUND(AVG(JobSatisfaction), 2) as avg_satisfaction,
148
       SUM(CASE WHEN Attrition = 'Yes' THEN 1 ELSE 0 END) as attrition_count,
149
        ROUND(AVG(CASE WHEN Attrition = 'Yes' THEN 1 ELSE 0 END) * 100, 2) as attrition_rate
150
151
     FROM employees
     GROUP BY Department, JobRole;
  -- Export summary for visualization
 SELECT
      Department,
      JobRole,
      Gender,
      MaritalStatus,
      EducationField,
      AVG(MonthlyIncome) as avg_income,
      AVG(YearsAtCompany) as avg_tenure,
      AVG(JobSatisfaction) as avg_satisfaction,
      COUNT(*) as employee_count,
      SUM(CASE WHEN Attrition = 'Yes' THEN 1 ELSE 0 END) as attrition_count
  FROM employees
  GROUP BY Department, JobRole, Gender, MaritalStatus, EducationField
  ORDER BY Department, JobRole;
  SELECT
      Department,
      JobRole,
```