

Data-Driven Enterprise – Collaborate

Activity Brief

Your task is to imagine you are a part of a team of data engineers within Credit Bank Corporation tasked with integrating employee performance data from various sources into the HR analytics dashboard.

The data sources include:

- Employee performance reviews (CSV file)
- Learning Management System (LMS) data (SQL database)
- Employee engagement survey responses (JSON file)

Instructions:

1. Collect data from provided sources
2. Clean and preprocess data for quality and consistency
3. Transform data into suitable format for analysis
4. Integrate transformed data into unified dataset

Datasets

Employee Performance Reviews (CSV file):

Employee ID	Performance Rating	Review Date	Reviewer Name			
1	4.5	15/05/2023	John Doe			
2	3.8	20/06/2023	Jane Smith			
3	4.2	10/07/2023	Mike Johnson			

Learning Management System (LMS) Data (SQL database):

Course ID	Performance Rating	Review Date
101	Leadership Skills	8 Weeks
102	Data Analysis	10 Weeks
103	Communication	6 Weeks

Employee Engagement Survey Responses (JSON file):

```
[
  {
    "EmployeeID": "001",
    "SurveyDate": "2023-09-20",
    "EngagementScore": 85,
    "Comments": "Enjoying the new team collaboration initiatives."
  },
  {
    "EmployeeID": "002",
    "SurveyDate": "2023-09-25",
    "EngagementScore": 78,
    "Comments": "Suggest more opportunities for skill development."
  }
]
```

```
},  
{  
  "EmployeeID": "003",  
  "SurveyDate": "2023-09-28",  
  "EngagementScore": 90,  
  "Comments": "Overall satisfied with work environment."  
}  
]
```