

DBMS ASSIGNMENT:EMPLOYEE SURVEY AND FEEDBACK PLATFORM

An organization's employees can provide feedback and opinions through a comprehensive system called an employee survey and feedback platform. This platform is an essential resource for businesses looking to evaluate and improve their workplace, employee happiness, and organizational culture in general. The usefulness of this kind of platform resides in its capacity to offer insightful information that can enhance worker engagement, productivity, and overall business performance.

Relevance:

Employee Engagement and Satisfaction:

For an organization to succeed, employee engagement and satisfaction are essential. A positive work culture can be fostered by utilizing a feedback platform to measure and improve these aspects.

Talent Retention:

Retention of staff can be improved by being aware of and responsive to their concerns. The platform facilitates the process of pinpointing areas that require enhancement and putting strategies in place to hold onto top talent.

Continuous Improvement:

The platform fosters a culture of continuous improvement by offering an ongoing feedback loop. Businesses are able to improve their operations and promptly adjust to shifting circumstances by using real-time insights.

Employee Development:

Employee feedback can inform individualized development plans, enabling staff members to advance in their positions and make more valuable contributions to the company.

Data-Driven Decision-Making:

The platform empowers organizations to make data-driven decisions by providing insights into employee sentiments, helping leaders align strategies with the needs and expectations of their workforce.

Organizational Culture:

A robust feedback platform contributes to shaping and maintaining a positive organizational culture, fostering transparency, communication, and collaboration.

Tables:**1)Role****2)Employee****3)Survey****4)SurveyQuestionDetails****6)SurveyResults****7)Feedback****Role Table**

role_id not NULL **primary key**

Name varchar

Employee Table

employee_id not NULL **primary key**

role_id not Null **foreign key**

email varchar

designation varchar
contact integer
department_id varchar foreign key
needs_survey boolean
needs_feedback boolean

Department Table

department_id varchar not NULL primary key
name varchar
title varchar
description varchar
employee_id varchar foreign key

Survey Table

survey_id varchar not NULL primary key
title varchar
description varchar
employee_id varchar foreign key
created_at timestamp
question_id varchar foreign key
created_by timestamp

SurveyQuestionDetails

question_id varchar not NULL primary key
survey_id varchar foreign key
questionType varchar
answer varchar

Feedback table

feedback_id varchar not NULL primary key

survey_id varchar foreign key
employee_id varchar foreign key
question_id varchar foreign key
submitted_at timestamp
text varchar

SurveyResults Table

survey_results_id varchar not NULL primary key
survey_id varchar foreign key
employee_id varchar foreign key
text varchar
submitted_at timestamp

NORMALIZATION

1NF- A table is in 1NF if it contains only atomic (indivisible) values, and there are no repeating groups or arrays.

Employee Table:

- All columns contain atomic values.
- No repeating groups or arrays are present.

Role Table:

- All columns contain atomic values.
- No repeating groups or arrays are present.

Similarly Department Table, Survey Table, SurveyQuestionDetails Table, Feedback Table, SurveyResults Table are also in 1NF

2NF- A table is in 2NF if it is in 1NF and all non-prime attributes are fully functionally dependent on the primary key.

Employee Table:

- The primary key is employee_id, and all non-prime attributes (role_id, name, email, designation, contact, department_id, needs_survey, needs_feedback) are functionally dependent on the entire primary key.

Department Table:

- The primary key is department_id, and all non-prime attributes (name, title, description, employee_id) are functionally dependent on the entire primary key.

Survey Table:

- The primary key is survey_id, and all non-prime attributes (title, description, employee_id, created_at, question_id, created_by) are functionally dependent on the entire primary key.

SurveyQuestionDetails Table:

- The primary key is question_id, and all non-prime attributes (survey_id, questionType, answer) are functionally dependent on the entire primary key.

Feedback Table:

- The primary key is feedback_id, and all non-prime attributes (survey_id, employee_id, question_id, submitted_at, text) are functionally dependent on the entire primary key.

SurveyResults Table:

- The primary key is feedback_id, and all non-prime attributes (survey_id, employee_id, text, submitted_at) are functionally dependent on the entire primary key

3NF- A table is in 3NF if it is in 2NF, and all transitive dependencies are removed.

The given tables are in 3NF as no non prime attributes depend on other non prime attributes.

ER DIAGRAM

