

Defect Report – Employee Registration Information-Database Testing

Defect ID	DF-DB-001
Project	Employee Data Management System
Module	Employee Registration
Reported By	Sayali Mahamuni
Reported On	26-Sep-2025
Severity	High
Priority	Medium
Defect Title	System allows future date entry during employee registration.
Description	<p>During employee registration, the system allows saving records with future dates (e.g., 01-Jan-2026) without any validation or error message.</p> <p>This violates business rules and may lead to incorrect employee data in the database.</p>
Expected Result	The system should restrict selection of future dates and display a validation error message.
Actual Result	The system allows submission with future dates without displaying any validation message.
Attachment	Screenshots of registration page with future date are attached.
Environment	OS: Windows 10 Browser: Chrome118 Test Type: Database Testing

Screenshots:

The screenshot displays the Oracle SQL Developer interface for a database named 'EmployeeDB'. The main window shows a script with several SQL statements. The first statement is a VALUES clause. The second statement is an INSERT INTO employees_test with a negative case comment. The third statement is an INSERT INTO employees_test with a negative case comment. The fourth statement is an INSERT INTO employees_test with a negative case comment. The fifth statement is an INSERT INTO employees_test with a negative case comment. The sixth statement is a SELECT * FROM EMPLOYEES TEST WHERE EMPLOYEE_ID = 614;.

```
VALUES (611, 'Test', NULL, 'test.null@company.com', '9876543411', TO_DATE('05-NOV-2025', 'DD-MON-YYYY'), 'HR_REP', 45000, 60);

-- Negative case == Insert invalid salary (CHECK constraint) --

INSERT INTO employees_test (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, department_id)
VALUES (612, 'Test', 'Salary', 'test.salary@company.com', '9876543412', TO_DATE('10-NOV-2025', 'DD-MON-YYYY'), 'SA_REP', -1000, 80);

-- Negative case == Insert duplicate email (UNIQUE constraint) --

INSERT INTO employees_test (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, department_id)
VALUES (613, 'Duplicate', 'Email', 'amit.kumar@company.com', '9876543413', TO_DATE('12-NOV-2025', 'DD-MON-YYYY'), 'MK_REP', 50000, 70);

-- Negative case == Insert hire_date in future (beyond 2025) --

INSERT INTO employees_test (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, department_id)
VALUES (614, 'Future', 'Date', 'future.date@company.com', '9876543414', TO_DATE('01-JAN-2026', 'DD-MON-YYYY'), 'IT_PROG', 55000, 90);

SELECT * FROM EMPLOYEES TEST WHERE EMPLOYEE_ID = 614;
```

The Query Result window shows the following data:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	DEPARTMENT_ID
614	Future	Date	future.date@company.com	9876543414	01-JAN-26	IT_PROG	55000	90

The status bar at the bottom indicates the current line is 105, column 54, and the window is titled 'EmployeeDB'.