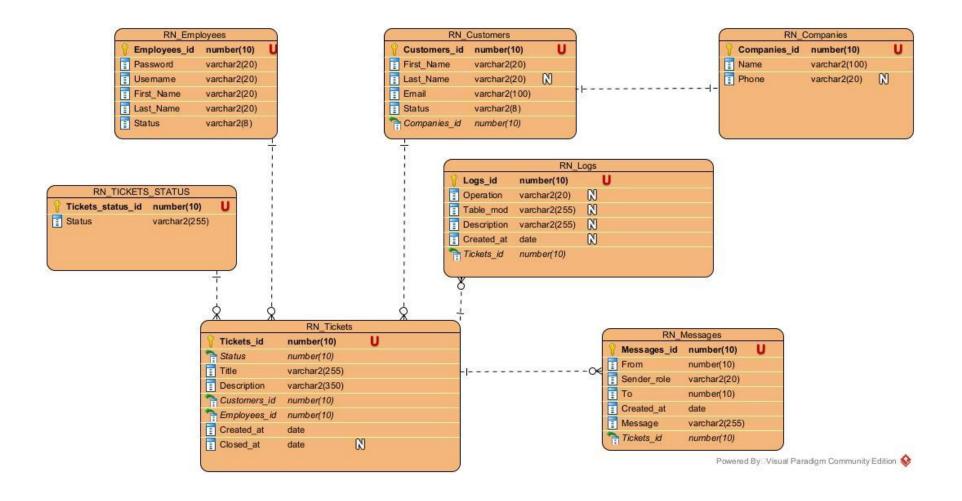
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ERD DIAGRAM



BRIEF EXPLANATION

Script content:

The script simulates the database of an IT Support Ticketing System.

Business Logic:

- 1. Customers and Employees information is stored in the database
- 2. When a customer has an issue, he opens a ticket
- 3. The ticket is assigned to the employee with less workload (number of tickets already assigned)
- 4. Once the ticket is created and assigned, customer and employee can start chatting about the issue
- 5. Ticket assignment and send of messages are events that generate records in the RN_Log table
- 6. Employees own a status: Active or Disabled
- 7. Tickets own a status: Assigned, Research, StandBy, Solved, or Closed

Testable parts of main logic:

- Insertions, Selects, Updates, and Deletions
- Flow to update the company of a customer
- Flow to generate a ticket
- Flow of chat
- Get the number of tickets not yet closed
- Search tickets by title (Indexed searches)

Requirements covered

Database: Included in the script file

Data tables:

Lookup tables: RN_TICKET_STATUS

Audit/log tables: RN LOGS

Constrains: Used in tables

ER diagram file: Included in this file

Minimum – 5 and Maximum 10 tables:

#	TABLE	TYPE
1	RN_CUSTOMERS	Data table
2	RN_EMPLOYEES	Data table
3	RN_TICKETS	Data table
4	RN_COMPANIES	Data table
5	RN_MESSAGES	Data table
6	RN_TICKET_STATUS	Lookup table
7	RN_LOGS	Data table

Sequences

1	rn_companies_seq;
2	rn_employees_seq;
3	rn_customers_seq;
4	rn_tickets_seq;
5	rn_messages_seq;
6	rn_logs_seq;

Indexes

customers_last_name_i	To search in table rn_customers by last_name
tickets_title_i	To search in table rn_tickets by title

Triggers

ADD_TICKET_EVENT_TO_LOG	Creates a record when a new ticket is created
LOG_MESSAGE	Creates a record when someone sends a message

Procedures

PRC_UPDATE_CUSTOMER_COMPANY	Updates company linked to a customer
PRC_CUSTOMER_CREATES_TICKET	Customer creates a new ticket
CREATE_MESSAGE	Customer or Employee sends a message

Functions

GET_DIFF_DATES_IN_HOURS	Returns the number of hours a ticket is being opened
GET_OPENED_TICKETS	Returns the number of tickets that have not yet been closed
GET_EMPLOYEE_LESS_TICKETS	Returns the employee id who has less tickets assigned

Packages

EMPLOYEE_MGMT	Handles all logic of employees	Includes 1 function
CUSTOMER_MGMT	Handles all logic of customers	Includes 2 procedures, and 1 global
		variable
TICKET_MGMT	Handles all logic of tickets	Includes 3 functions, 1 procedure,
		and 1 private variable

^{*} Constrains and attributes %TYPE, %ROWTYPE, have been used throughout all the script

^{*} All data tables have 10 or more records, and the lookup table has 5 records.