CRUD Matrix — ROTM (REPS ON THE MOVE)

Function Group Headers (columns):

Group	Process IDs
1 - Employee	1.1 Log In, 1.2 Register New Employee, 1.3 Search Employee, 1.4 Update Employee, 1.5 Delete Employee, 1.6 Create Access Level, 1.7 Modify Employee Access Level, 1.8 General marketing notification, 1.9 General internal notification, 1.10 Forgot password, 1.11 Log out
2 - Client	2.1 Create client, 2.2 Search client, 2.3 Update client details, 2.4 Delete client, 2.5 Create client contact, 2.6 Update client contact information, 2.7 Delete client contact
3 - Training Course	3.1 Create training course, 3.2 Search training course, 3.3 Update training course, 3.4 Delete training course
4 - Training Course Instance	4.1 Create training course instance, 4.2 Search training course instance, 4.3 Update training course instance, 4.4 Delete training course instance, 4.5 Capture sales rep attendance
5 - Venue	5.1 Create venue, 5.2 Search venue, 5.3 Update venue, 5.4 Delete venue
6 - Booking	6.1 Create booking, 6.2 Search booking, 6.3 Modify booking, 6.4 Delete booking, 6.5 Book and confirm training course, 6.6 Create reminder, 6.7 Delete reminder
7 - Maintenance	7.1 Create task, 7.2 Search task, 7.3 Update task, 7.4 Delete task, 7.5 Maintain employee type, 7.6 Maintain training course type, 7.7 Maintain client type, 7.8 Maintain booking type, 7.9 Generate and send registration token, 7.10 Update quote status
8 - Milestone	8.1 Create and assign milestone, 8.2 Search milestone, 8.3 Update milestone, 8.4 Delete milestone
9 - Sales Rep	9.1 Capture start time and location, 9.2 Capture tasks, 9.3 Capture end time
10 - Reports	10.1 Generate quote and order report, 10.2 Generate weekly booking report, 10.3 Generate projected booking report, 10.4 Generate actual booking report, 10.5 Generate quote
11 - Instructor	11.1 Create instructor, 11.2 Search instructor, 11.3 Update instructor details, 11.4 Delete instructor, 11.5 Maintain instructor type

Entities and Attributes (Entity / Attribute Name):

- **Access_Level**: Access_Level_ID, Access_Level_Name, Access_Level_Description
- **Active_User**: Active_User_ID, DateTime_Stamp, Login, Logout, EmployeeID
- **Address**: Address_ID, Street_Name, Suburb, City, Province, Country
- **Attendance**: Training_Course_Instance_ID, EmployeeID, Replied_Going, Actual_Attedance
- **Audit_Trail**: Audit_Trail_ID, EmployeeID, Audit_DateTime, Trail_Description, Deleted_Record
- **Booking**: Booking_ID, Booking_Name, Booking_Date, Booking_Start_Time, Booking_End_Time, Booking_Type_ID, Client_Contact_ID, EmployeeID, Address_ID
- **Booking_Instance**: Booking_Instance_ID, Booking_Instance_Comments, Booking_Instance_Start_Time, Booking_Instance_End_Time, Booking_ID, Quote_ID, Address_ID
- **Booking_Reminders**: Booking_ID, Reminder_ID, Reminder_Description
- **Booking_Type**: Booking_Type_ID, Booking_Type_Name, Booking_Type_Description
- **Client**: Client_ID, Client_Name, Client_Cellphone, Client_Email, Client_Rating_ID, Client_Type_ID
- **Client_Contact**: Client_Contact_ID, Client_Contact_Name, Client_Contact_Surname, Client_Contact_Email, Client_Contact_Phone, Client_Contact_Type_ID, Client_ID, Title_ID
- **Client_Contact_Type**: Client_Contact_Type_ID, Client_Type_Name, Client_Type_Description
- **Client_MailingList**: Mailing_List_ID, Client_ID, Description
- **Client_Rating**: Client_Rating_ID, Rating_Name, Rating_Description
- **Client_Type**: Client_Type_ID, Client_Type_Name, Client_Type_Description
- **Employee**: Employee_ID, Employee_Name, Employee_Surname, Employee_Email, Employee_Home_Phone, Employee_Cellphone, Employee_RSA_ID, Employee_Avatar, Employee_Type_ID, Password_ID, Gender_ID, Address_ID, Registration_Token_ID, Title_ID
- **Employee_Client**: Client_ID, EmployeeID, Relationship_Description
- **Employee_MailingList**: Mailing_List_ID, EmployeeID, Description
- **Employees_Milestones**: Milestone_ID, EmployeeID, Reason_Milestone, Milestone_Progress
- **Employee_Type**: Employee_Type_ID, Type_Name, Type_Description
- **Gender**: Gender_ID, Gender
- **Instructor**: Instructor_ID, Instructor_Name, Instructor_Surname, Instructor_Email, Instructor_Type_ID, Instructor_Cellphone, Gender_ID, Title_ID
- **Instructor_Type**: Instructor_Type_ID, Instructor_Type_Name, Instructor_Type_Description
- **Mailing_List**: Mailing_List_ID, Mailing_List_Name, Mailing_List_Description
- **Marketing**: Marketing_ID, Marketing_Description, Marketing_Image, Marketing_Type_ID, Mailing_List_ID
- **Marketing_Type**: Marketing_Type_ID, Marketing_Name, Marketing_Description
- **Milestone**: Milestone_ID, Milestone_Name, Milestone_Description
- **Notification**: Notification_ID, Notification_Name, Notification_Text, Notification_DateTime, Mailing_List_ID
- **Passwords**: Password_ID, Encrypted_Password
- **Quote**: Quote_ID, Quote_Name, Quote_Ref_Num, Quote_Date, Quote_Price, Quote_Status_ID
- **Quote_Status**: Quote_Status_ID, Status_Name, Status_Description
- **Registration_Token**: Registration_Token_ID, Registration_Token, New_Email, Access_Level_ID
- **Reminder**: Reminder_ID, Reminder_Type_ID, Reminder_DateTime
- **Reminder_Type**: Reminder_Type_ID, Reminder_Type_Name, Reminder_Type_Description
- **Task**: Task_ID, Task_Name, Task_Description
- **Tasks_Completed**: Booking_Instance_ID, Task_ID, Task_Comments, Milestone_ID

(CRUD cell values — C = Create, R = Read, U = Update, D = Delete — are distributed across the process columns for each attribute as indicated in the matrix.)

Entity	Attribute																														
Task_Milestone	Task_ID																								R	R	R	R			
	Task_Repetions																								CR	R	RU	DR			
Title	Title_ID		R	R	R	R				R	R																		R	R	R	R
	Title		R	R	R	R				R	R																		R	R	R	R
Training_Course	Training_Course_ID						CR	R	R	R		R	R	R	R	R						R										R
	Training_Course_Type_ID						CR	R	R	R																						
	EmployeeID						R	R	R	R																						
	Training_Course_Name						CR	R	RU	RD		R	R	R	R	R						R										R
	Training_Course_Description						CR	R	RU	RD																						
Training_Course_Instance	Training_Course_Instance_ID											CR	R	R	DR	R						R										R
	Instance_Date											CR	R	RU	DR	R						R										
	Instance_Start_Time											CR	R	RU	DR	R						R										
	Instance_End_Time											CR	R	RU	DR	R						R										
	Venue_ID											R	R	R	R	R						R										
	Training_Course_ID											R	R	R	R	R						R										
	Instructor_ID											R	R	R	R	R						R										
Training_Course_Type	Training_Course_Type_ID						R	R	R	R														CR								
	Course_Name						R	R	R	R														CR								
	Course_Description																							CR								
Venue	Venue_ID											R	R	R	R	R	CR	R	R	RD		R										
	Venue_Name											R	R	R	R	R	CR	R	RU	RD		R										
	Venue_Description																CR	R	RU	RD												
	Venue_Soe																CR	R	RU	RD												
	Address_ID																R	R	R	RD												