

User

Attribute	Description	Data Type	Constraints / Rules	Example
UserId	Unique ID for the user	varchar(10)	Primary Key; Cannot be null; Auto-generated during Setup User	USER0810 25
UserName	Full name of the user	varchar(255)	Cannot be null	Meylisa Wangsa
Password	User login password	varchar(10)	Cannot be null; UserId + Password must be provided at login, Must contain only letters and/or numbers (alphanumeric), Maximum length 10 characters	abc123xyz1

Role

Attribute	Description	Data Type	Constraints / Rules	Example
RoleId	Unique ID for each role	varchar(5)	Primary Key; Cannot be null	ROL01
RoleName	Name of the role	varchar(255)	Cannot be null; Must be unique	Administrator

UserRole

Attribute	Description	Data Type	Constraints / Rules	Example
UserRoleId	Unique ID for UserRole record	varchar(5)	Primary Key; Cannot be null	UR001

UserId	ID referencing the User table	varchar(10)	Foreign Key User(UserId); Cannot be null	USR123
RoleId	ID referencing the Role table	varchar(5)	Foreign Key Role(RoleId); Cannot be null	ROL01

Master Page

Attribute	Description	Data Type	Constraints / Rules	Example
PageId	Unique identifier for a page	varchar(5)	Primary Key; Cannot be null	P0001
UserRoleId	Role allowed to access this page	varchar(5)	Foreign Key UserRole(UserRoleId); Cannot be null	UR001
PageName	Name of the page	varchar(255)	Cannot be null	Dashboard

Table Example

User

UserId	UserName	Password
USR001	Meylisa Wangsa	*****
USR002	Jason Sebastian	*****
USR003	Anaika Amira	*****

Role

RoleId	RoleName
R001	Administrator

R002	Staff
R003	Viewer

UserRole

UserRoleId	UserId	RoleId
UR001	USR001	R001
UR002	USR002	R002
UR003	USR003	R003

Master Page

PageId	PageName	URLPath	UserRoleId
P0001	Dashboard	/dashboard/home	UR001
P0002	Manage Users	/user/manage	UR001
P0003	View Reports	/reports/view	UR002
P0004	Home	/home	UR003