User Permissions with supporting Matrix

In a database as big as Farmers, with many different users such as Customers, Employees, Sales and Marketing etc all having access to the same database. This is why there needs to be some user permissions implemented, to ensure that only certain people are able to see what they need to see, and also restrict who can make and update these parts of the database.

These user permissions are also very critical to privacy issues and keeping customer/employee data confidential, and it can cause some big issues legally if this data is not handled correctly. For this reason there needs to be some serious planning involved in these user permissions.

Some examples of these include:

- Customers should only be able to see their own customer details, no one else's.
- Same with employees, no need to see others (unless you are their supervisor, in which case SOME data may be available)
- Marketing should be the ones to deal with new products and branding etc so they alone have CREATE access to these tables.

A supporting matrix is shown below detailing which users have access to which entity, and what specifically they can do to these entities, Create, Read, Update or Delete.

CRUD Matrix

Entity	User	Customer	Marketing	Sales	Wharehouse	Accounts	Management
address		CRUD	R	CRUD	R		R
address_type			R	R	R		CRUD
brand		R	CRUD	R			CRUD
brand_discount			CRUD	R			
brand_type			CRUD	R			
cart_line				RU			
club_card		R		CRUD		RU	
customer		CRUD		CRUD	R	R	R
department				R		R	CRUD
department_discount			CRUD	R			
department_employee				R			CRUD
discount			CRUD	R			R
employee							CRUD
employee_position							CRUD
employee_roster							CRUD
employee_skill							CRUD
event			CRUD	R			R
gift_card		R		CRUD			
inventory				RU	RU		CRUD
invoice		R		CR		RU	R
line		CRUD		CRUD			
mastercard		R		CRUD		RU	
order		CRUD	R	CRUD	R	R	
order_line		CRUD		CRUD	R		
product		R	CRUD	R	R		R
product_type		R	CRUD	R			R
roster							CRUD
shift							CRUD
shopping_cart		RU		RU			
skill							CRUD
store					R		CRUD
store_department							CRUD
supplier				R	R	R	CRUD
supplier_product				R	R		CRUD
timesheet							CRUD
timesheet_shift							CRUD
wishlist		RU					
wishlist_product		CRUD					