Entity-Relationship Diagram

staff_roles
PK/FK	*project_code: String*
PK/FK	*staff_id: Int*
	role: String, Not Nullable, Default ""

Note: How to address role changes on the same job? Start and end dates for each record? Or a status?

projects
PK	code: String
	project_name: String, Not Null
	status: String, Not Null (active, inactive)

craft_roles
PK/FK	*project_code: String*
PK/FK	*craft_id: Int*
	role: String, Not Nullable, Default ""

daily_reports
PK	id: Int Serial
	date: Not Null, only date no time zone
	name: String, Not Null
FK	*project_code: String, Not Null*
FK	*author_id: Int, Not Null*
	approver_id: Int, Not Null
	status: String, Not Null (started, submitted, approved)

Note: How to get multiple people in a relationship that refers to the same table? IE an author and a field approver and an office approver? Somehow with primary/secondary relationship?

craft_summary
PK/FK	*daily_report_id: Int*
PK/FK	*craft_id: Int*
	notes: String, Not Null

craft
PK	id: Int Serial
	first_name: String, Not Null
	last_name: String, Not Null
	status: String, Not Null (active, inactive)

daily_report_items
PK	id: Int Serial
FK	*daily_report_id: Int, Not Null*
FK	*craft_id: Int, Not Null*
FK	*cost_code: String, Not Null*
	hrs_worked: int, not null

staff
PK	id: Int Serial
	first_name: String, Not Null
	last_name: String, Not Null
	email: String, Not Null
FK	*clearance_level: Int, Not Null, Default 0*
	password: String. Not Null
	status: String, Not Null (active, inactive)

Note: Have to make it so have unique first and last name.

clearance
PK	level: Int
	name: String, Not Null

cost_codes
PK	code: String
	name: String, Not Null
FK	*project_code: String, Not Null*
	status: String, Not Null (active, inactive)
	budgeted_qty: Int, Not Null
	qty_units: String, Not Null
	budgeted_mhrs: Int, Not Null
	budgeted_cost: Int, Not Null

Note: How to deal with different currencies?

cost_code_summary
PK/FK	*daily_report_id: Int*
PK/FK	*cost_code: String*
	qty_installed: int, not null
	note: String, not null

Note:
0. None: Add Themselves (Staff)
1. Eng: Make, Delete, and Submit Own Reports, View all reports
2. Sup: Above and edit approver reports
3. Business: Above and add/edit craft, change craft status, edit all reports
4. Project Eng: Above and add/edit codes, change clearance level on staff (1-4), add projects
5. Admin: Above and change staff/project status