

Kaiser Downey Transition Education Database

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Background

About the company and business goals





Kaiser Permanente Downey is opening up a New Hospital tower. Before that happens staff need to be trained and oriented to the new tower. There is data that needs to be tracked for all the employees that are going to be working in the new tower.





Problem

- Increasing amount of data
- Multiple Sources
- Hard to keep track of
- Data quality





Solution

- Database
- Stores complex relationships in data
- Provide organizational structure
- Rules for search and creation



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User Requirements

User requirements for projects





General User Requirements

Staff

Staff are required to attend orientation which include: building tour and transtional workshop. And turtraining based on in a checklist, equipment list, and scavenger hunt.

Specialize Staff

There are many different specializations in a hospital. Staff may have additional training based on their speicalization.

Departments

Each staff belongs to a certain deparment and each department have different managers/directors.





Main use of the database

Education Tracker

Keep track of which employee completed their orientation and turned in all their required forms.

Roster

Keep track of employees, what kind of staff they are, and who they work under.





Main use of the database

Training Dates

Keep track of training dates for specialized employees

Employee Lookup

Look up specific employees.

Training Validation

Show employees who are missing training documents or orientations.



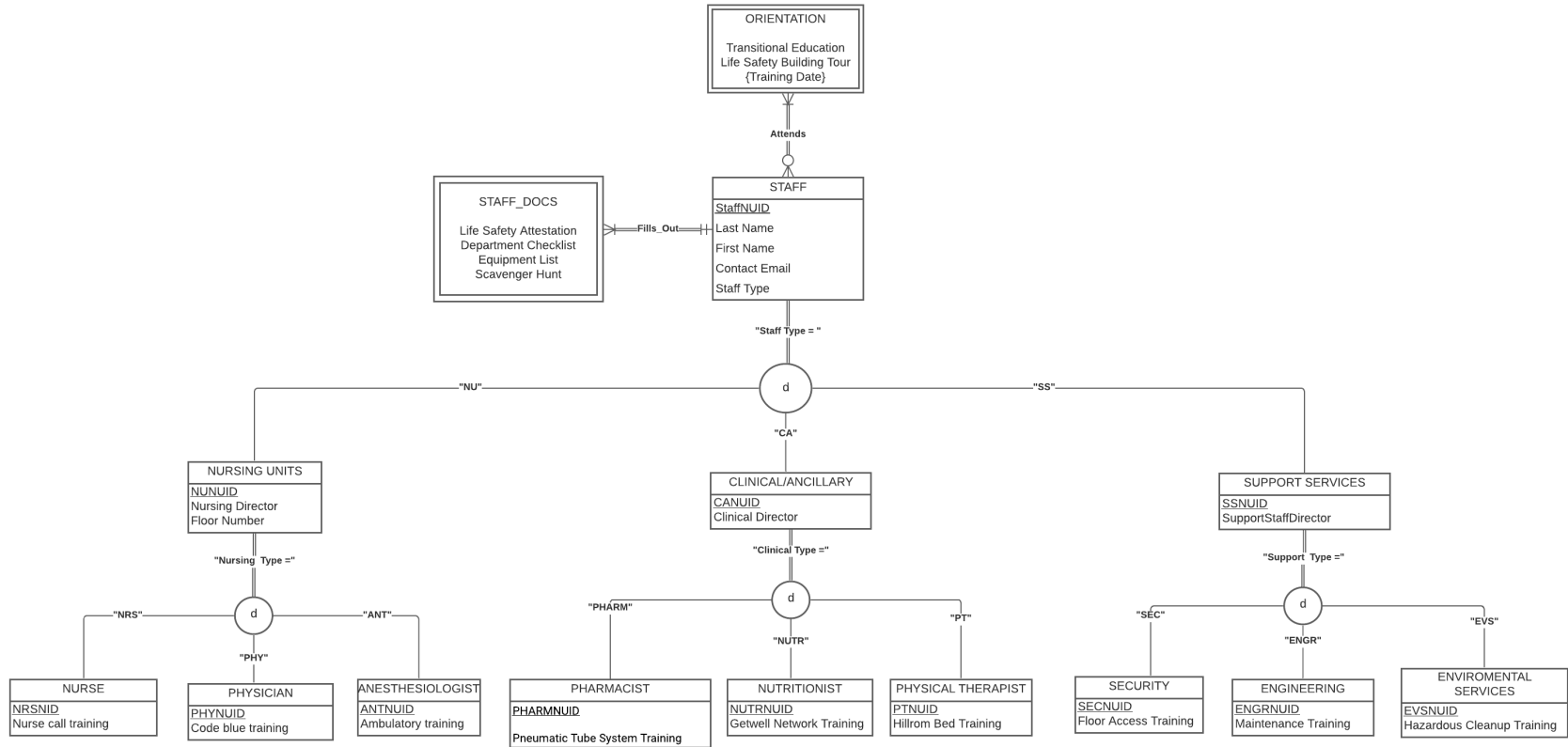
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Diagrams

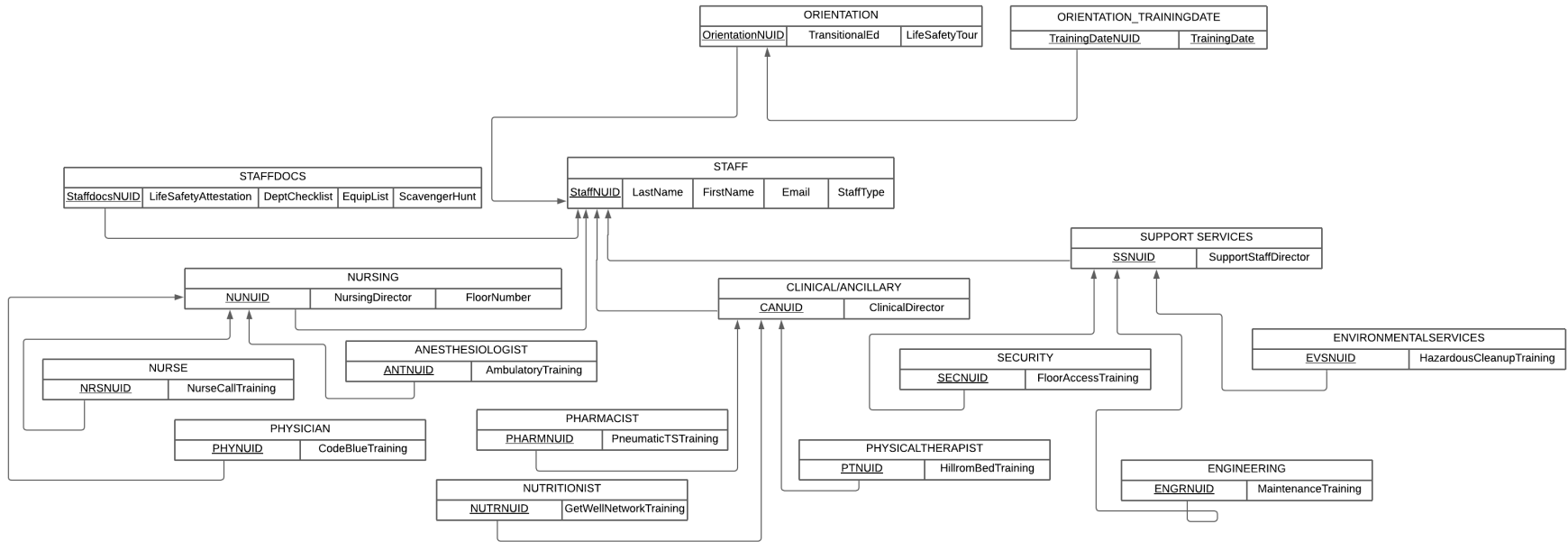
ER Diagram and Logical Database Design



ER Diagram



Logical Database Design



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Implementation in MySQL





Implementing MySQL will keep data organized and allow us to run data queries on which employees are being trained for specific departments in the new tower.





Organizational Goal with MySQL

StaffFirstName	StaffLastName	TrainingDate
Luis	Smith	2020-09-26 00:00:00
Humera	Friedman	2020-09-26 00:00:00
Humera	Robert	2020-09-28 00:00:00
Cherie	Wilkes	2020-10-15 00:00:00
Lake	Robyn	2020-10-16 00:00:00
Taliyah	Whittington	2020-10-16 00:00:00
Reiley	Rojin	2020-10-23 00:00:00
Ortega	Sahib	2020-10-23 00:00:00
Thatcher	Arya	2020-10-24 00:00:00
Ayers	Kadie	2020-10-24 00:00:00
Natasha	Maxwell	2020-09-26 00:00:00
Faizaan	Aguirre	2020-09-26 00:00:00
Jones	Aditya	2020-09-28 00:00:00
Carter	Lucas	2020-10-15 00:00:00
Velazquez	Louise	2020-10-16 00:00:00





Procedures with SQL

- Track employee task completion
- View employee floor assignments
- Check employee training dates





Pharmacist Task Table

```
SET @p0='pharmacist'; CALL `req_forms`(@p0);
```

Execution results of routine `req_forms`

StaffType	StaffLastName	StaffFirstName	LifeSafetyAttestation	DeptChecklist	EquipList
Pharmacist	Holman	Harrison	No	Yes	No
Pharmacist	Sarina	Whitley	Yes	No	Yes
Pharmacist	Konrad	Mayer	Yes	Yes	No

Indicates completion (incompletion) of forms, checklists, and training



Nursing Staff

+ Options

StaffNUID	StaffFirstName	NursingDirector	FloorNumber	NurseCallTraining
2001	Harrison	Holman Harrison	6N	No
2002	Whitley	Sarina Whitley	4N	No
2003	Mayer	Holman Harrison	5N	Yes
2004	Washington	Sarina Whitley	4N	No
2005	Grainger	Holman Harrison	5N	Yes

Organized data based off
which floor nurses are
assigned to and their
coordinating staff type



Security Training Dates

+ Options

StaffFirstName	StaffLastName	TrainingDate
Luis	Smith	2020-09-26 00:00:00
Humera	Friedman	2020-09-26 00:00:00
Humera	Robert	2020-09-28 00:00:00
Cherie	Wilkes	2020-10-15 00:00:00
Lake	Robyn	2020-10-16 00:00:00
Taliyah	Whittington	2020-10-16 00:00:00
Reiley	Rojin	2020-10-23 00:00:00
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Jones	Aditya	2020-09-28 00:00:00
Carter	Lucas	2020-10-15 00:00:00
Velazquez	Louise	2020-10-16 00:00:00

Ensures security
staff members have
completed a training or
been assigned one



Views with SQL

Specifying searches within our staff

- Search based off employee criteria
 - First Name
 - Last Name
 - NUID

Utilizing complex statements to track staff document completion

- Equipment list
- Scavenger Hunt
- Check lists





Missing Documents

```
1 CREATE VIEW V_tdocs_staff AS
2
3
4 (SELECT staff.StaffType, staff.StaffFirstName, staff.StaffLastName, staff_docs.DeptChecklist FROM staff, staff_docs
5
6 |
7 WHERE staff.StaffNUID = staff_docs.StaffdocsNUID AND staff_docs.DeptChecklist = "No"
8
9 );
```



Missing Documents

+ Options

StaffType	StaffFirstName	StaffLastName	DeptChecklist
Engineering	Humera	Robert	No
Pharmacist	Whitley	Sarina	No
Nurse	Garza	Adina	No
Security	Jones	Aditya	No

Organized by staff type and name to ensure they have completed certain documents and tasks



Transitional Education

View showcasing staff members that start with the first name letter "L" with their transitional education completion

✓ Showing rows 0 - 2 (3 total, Query took 0.0017 seconds.)

```
SELECT * FROM `v_eo_staff`
```

Show all | Number of rows: 25 ▼ | Filter rows:

+ Options

StaffNUID	StaffLastName	StaffFirstName	StaffEmail	StaffType	TransitionalEd
1001	Smith	Luis	Smith.Luis@gmail.com	NUID	No
1005	Robyn	Lake	Robyn.Lake@gmail.com	SSNUID	No
1009	Sabah	Lewis	Sabah.Lewis@gmail.com	NUID	No

5 MySQL is the solution





Overall

MySQL allows us to track all the data of the employees in the new tower

Utilizing view and stored procedures helps us ensure employees are staying on track



Thank you!
Any Questions?

