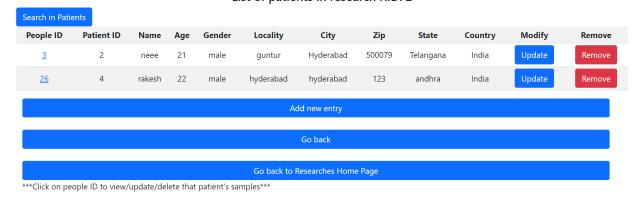
Assignment 8 Query Optimization

1) Implemented a search functionality for name (entire name) and locality columns in patients page.

By clicking on "search in patients" button the webapp takes to a new page to enter values.

List of patients in research RID: 2



By entering the name and locality we can look for records with those same names or same localities as the values entered.



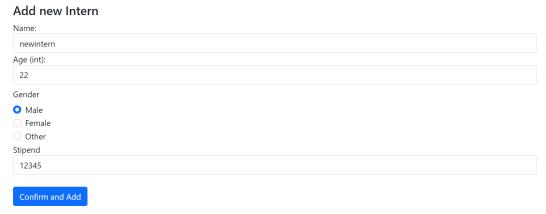
By entering locality as guntur and then clicking on search.

List of patients in research RID: 2											
name											
locality											
search											
People ID	Patient ID	Name	Age	Gender	Locality	City	Zip	State	Country	Modify	Remove
<u>3</u>	2	neee	21	male	guntur	Hyderabad	500079	Telangana	India	Update	Remove
						Add new entry					
						Go back					
					Go back to	Researches Hor	ne Page				
Click on pe	ople ID to view/	update/dele	ete that	patient's san	nples						

- **2)** BY adding explain and analyse to the query the results of number of scans and loops are generated.
- **3)** Changed the datatype from int to tinyint for columns id and stipend in the intern table. Here is a snapshot of the intern table with a record containing stipend, ids lower than 127



Now if addition of a new record with value greater than 127 for stipend is attempted the webapp throws a data error stating out of range value for column stipend.



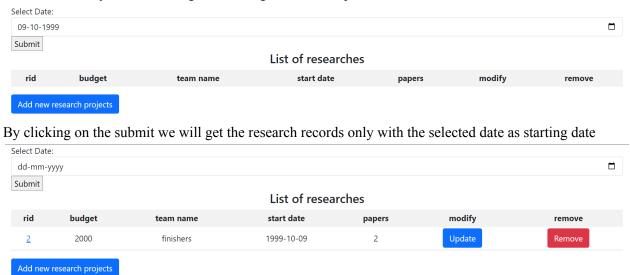
DataError

MySQLdb._exceptions.DataError: (1264, "Out of range value for column 'stipend' at row 1")

4) Added a column start date in the list of researches page with datatype date. By clicking on search by date and selecting the required date we get the records only with that selected date as the starting date.



Select the date by either entering or selecting from the drop down

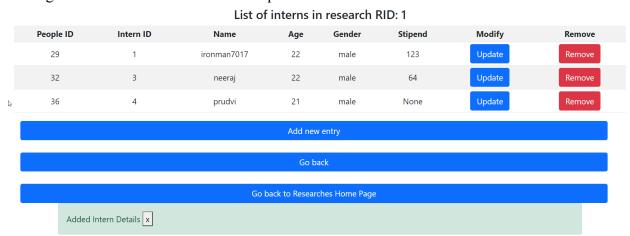


Date format in sql: YYYY-MM-DD

5) Changed the functionality of intern page, stipend column to not required. i.e. null values are supported.

List of interns in research RID: 1 Modify People ID Intern ID Name Age Gender Stipend Remove Update 29 ironman7017 22 male 123 22 32 Update neeraj male 64 Add new entry Go back Go back to Researches Home Page

Adding new intern with null value for stipend.



Added a functionality to count stipend from intern table.

By clicking on count stipend button (shown below)

List of interns in research RID: 1

People ID	Intern ID	Name	Age	Gender	Stipend	Modify	Remove
29	1	ironman7017	22	male	123	Update	Remove
32	3	neeraj	22	male	64	Update	Remove
36	4	prudvi	21	male	None	Update	Remove
Add new entry							
			Go b	ack			
Count stipend							
		Go b	ack to Resear	ches Home Page			

The webapp takes to a new page where the count is displayed ignoring the records which have stipend values as null

Count
{'count(intern.stipend)': 2}
Go back!