Problem A:

Table Name : Employee

EID	Ename	Pid	
100	ABC	P189	
101	MNP	P789	
102	DEF	P567	
103	JKL	NULL	
104	GHJ	P567	
105	UJM	P189	
106	UJM	NULL	
107	RGJ	P567	
108	IJH	NULL	
109	NMH	P547	
110	SDF	P189	
111	TGB	P546	
112	HUF	NULL	
113	SDF	P789	
114	RGJ	P567	
115	JKG	P189	

Table Name : Project

Pname
Rest
Spring
Maven
Swift
Angular
Script
Mssql
Perl
Python
Ruby
R

Write a query to:

1. Find all the projects which are not currently taken up by any employee

- 2. Find all the other employees who are working in the same project with 'ABC'
- 3. Find all the project names and No of employees working on each project
- 4. Find all the projects which have 2 or more employees with same name
- 5. List out the names of both employees and projects in alphabetical order into the single result.

Problem B:

Please write the queries for the following requirement using the below table

Table Name : Products (ProductID is the Primary Key, CategoryID is the foreign Key)

ProductID	ProductName	SupplierID	CategoryID	Unit	Price
1	Chais	1	1	200	18
2	Chang	1	1	120	19
3	Aniseed Syrup	1	2	50	10
4	Chef Anton's Cajun Seasoning	2	2	45	22
5	Chef Anton's Gumbo Mix	2	4	65	25
6	Grandma's Boysenberry Spread	3	2	78	25
7	Uncle Bob's Organic Dried Pears	3	3	98	30
8	Northwoods Cranberry Sauce	3	2	150	40
9	Mishi Kobe Niku	4	4	230	97
10	Ikura	4	5	45	31

Table Name : Categories (CategoryID is the Primary Key)

CategoryID	CategoryName	Description
1	Beverages	Soft drinks, coffees, teas, beers, and ales
2 Condiments	Condiments	Sweet and savory sauces, relishes, spreads, and
	Condinients	seasonings
3	Confections	Desserts, candies, and sweet breads
4	Dairy Products	Cheeses
5	Grains/Cereals	Breads, crackers, pasta, and cereal

- 1. Find all records where product name contains 'ch'
- 2. Find all records where price is greater than the average price of all products
- 3. Find all products whose category name is 'Condiments'
- 4. Find No of products of each category
- 5. The following query is too slow on the products table containing more than 10 lacs records

Select * from products where Unit > 500;

Write a query that decreases the retrieval time from now

Hint: Create INDEX unit index on Products (Unit)