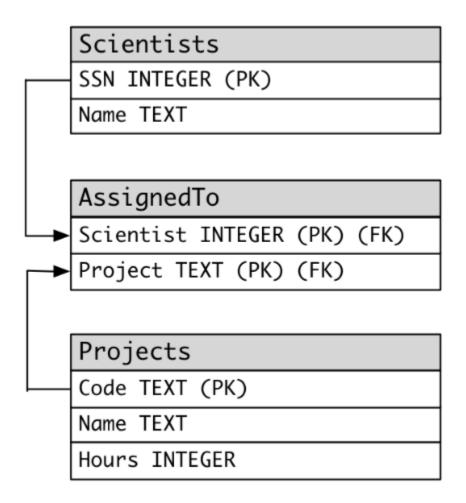
QUESTIONS:-



CODE:-

```
create database alpha;
use alpha;
create table Scientists (
    SSN int,
    Name Char(30) not null,
    Primary Key (SSN)
);
```

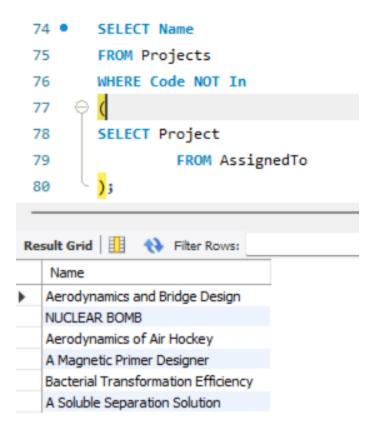
```
9 ● ○ Create table Projects (
         Code Char(4),
10
         Name Char(50) not null,
11
12
         Hours int,
13
         Primary Key (Code)
14
       );
15
16 • ⊖ create table AssignedTo (
17
         Scientist int not null,
         Project char(4) not null,
18
         Primary Key (Scientist, Project),
19
         Foreign Key (Scientist) references Scientists (SSN),
20
         Foreign Key (Project) references Projects (Code)
21
22
       );
23
24
       INSERT INTO Scientists(SSN,Name)
         VALUES(123234877, 'Michael Rogers'),
25
            (152934485, 'Anand Manikutty'),
26
            (222364883, 'Carol Smith'),
27
28
            (326587417, 'Joe Stevens'),
            (332154719, 'Mary-Anne Foster'),
29
            (332569843, 'George ODonnell'),
30
31
            (546523478, 'John Doe'),
            (631231482, 'David Smith'),
32
            (654873219, 'Zacary Efron'),
33
            (745685214, 'Eric Goldsmith'),
34
35
            (845657245, 'Elizabeth Doe'),
            (845657246, 'Kumar Swamy'),
36
            (1646132, 'AMAN'),
37
            (1234646, 'GERARD');
38
39
```

```
40 •
         INSERT INTO Projects ( Code, Name, Hours)
         VALUES ('AeH1', 'Winds: Studying Bernoullis Principle', 156),
 41
                ('AeH2', 'Aerodynamics and Bridge Design', 189),
 42
                ('AeH3', 'Aerodynamics and Gas Mileage', 256),
 43
                ('AeH4', 'Aerodynamics and Ice Hockey', 789),
 44
                ('AeH5','NUCLEAR BOMB', 98),
 45
                ('AeH6', 'Aerodynamics of Air Hockey', 89),
 46
                ('Ast1','A Matter of Time',112),
 47
                ('Ast2','A Puzzling Parallax', 299),
 48
                ('Ast3', 'Build Your Own Telescope', 6546),
 49
                ('Bte1', 'Juicy: Extracting Apple Juice with Pectinase', 321),
 50
                ('Bte2', 'A Magnetic Primer Designer', 9684),
 51
 52
                ('Bte3', 'Bacterial Transformation Efficiency', 321),
                ('Che1', 'Boston', 545),
 53
                ('Che2','A Soluble Separation Solution', 778);
 54
 55
 56 •
         INSERT INTO AssignedTo ( Scientist, Project)
 57
           VALUES (123234877, 'AeH1'),
             (152934485, 'AeH3'),
 58
60
            (326587417, 'Ast3'),
61
            (332154719, 'Bte1'),
            (546523478, 'Che1'),
62
            (631231482, 'Ast3'),
63
            (654873219, 'Che1'),
64
            (745685214, 'AeH3'),
65
            (845657245, 'Ast1'),
66
            (845657246, 'Ast2'),
67
            (332569843, 'AeH4');
68
```

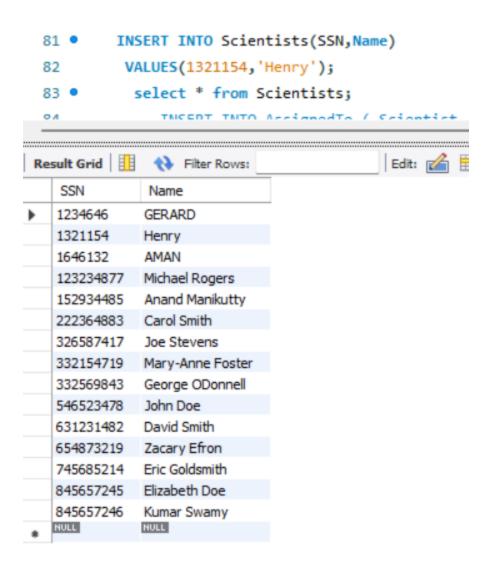
1)List all the scientists; names, their projects; names, and the hours worked by that scientist on each project, in alphabetical order of project name, then scientist name.

69 • SELECT S.Name, P.Name, P.Hours 70 FROM Scientists S 71 INNER JOIN AssignedTo A ON S.SSN=A.Scientist 72 INNER JOIN Projects P ON A.Project=P.Code ORDER BY P.Name ASC. S.Name ASC: Result Grid Filter Rows: Export: Wrap Cell Content Name Name Hours Elizabeth Doe A Matter of Time 112 A Puzzling Parallax 299 Kumar Swamy Anand Manikutty Aerodynamics and Gas Mileage 256 Eric Goldsmith Aerodynamics and Gas Mileage 256 George ODonnell Aerodynamics and Ice Hockey 789 John Doe 545 Boston Zacary Efron Boston 545 Build Your Own Telescope Carol Smith 6546 David Smith Build Your Own Telescope 6546 Joe Stevens Build Your Own Telescope 6546 Mary-Anne Foster Juicy: Extracting Apple Juice ... 321 Winds: Studying Bernoullis Pri... Michael Rogers 156

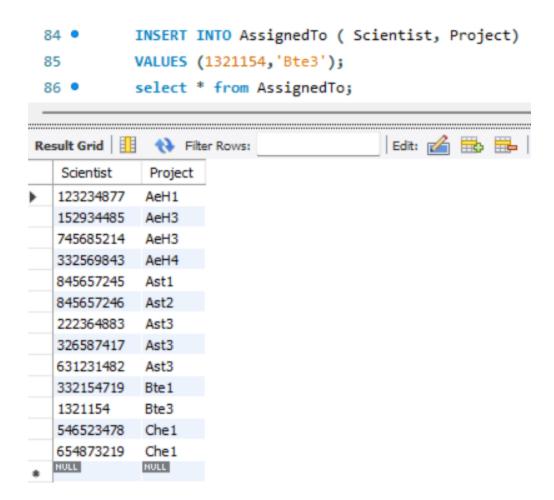
2)Select the project names which are not assigned yet.



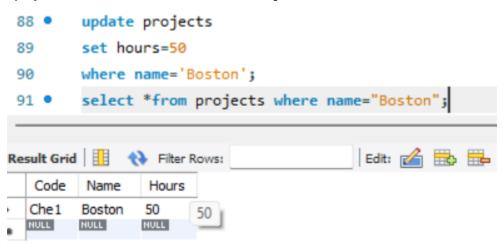
3)Add an entry to the database of scientist "Henry" to the Scientists table and Projects table assign him a project of any Biomedical project and timing of your choice.



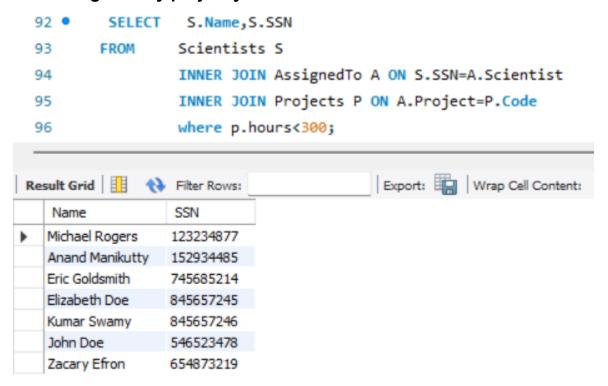
5)Please provide the details of Scientists who have taken less than 30 hours for their project



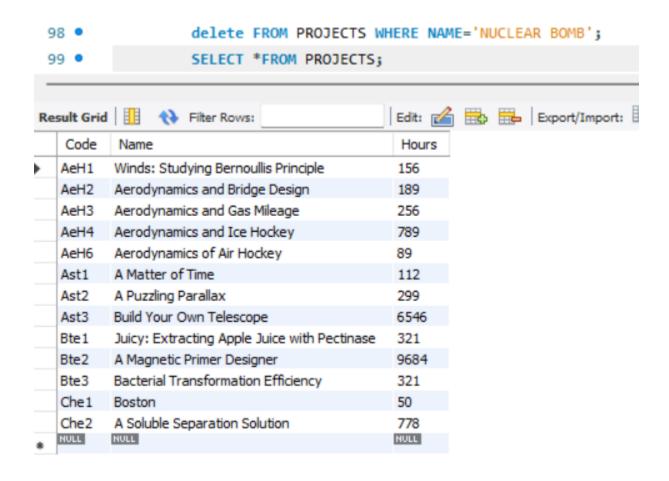
4)Update the hours taken for Project "Boston" to 50 hours.



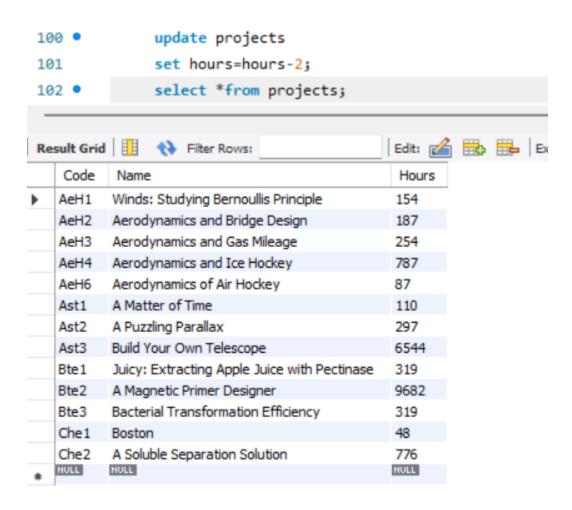
6)Please provide the details of the Scientist names who have not been assigned any project yet.



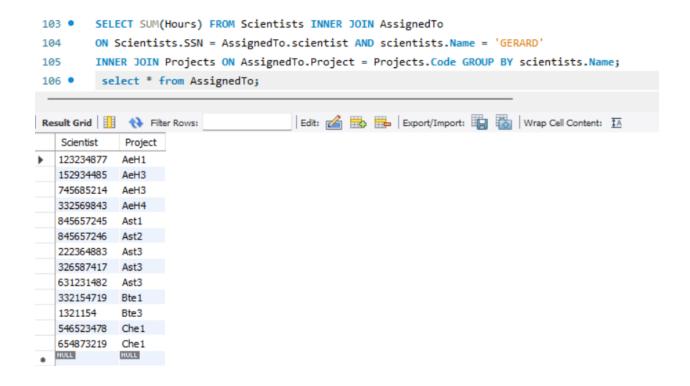
7)Delete the record Project "Nuclear_Bomb" from Projects table.



8) Decrease the time taken for each project by 2 hours.



9) Find the hours taken for all projects which were assigned to scientist "Gerard".



10)Provide the details of the scientist who have taken maximum Projects.

