Table creation code

**create** **table** Scientists (

SSN int,

Name Char(30) **not** **null**,

**Primary** **Key** (SSN)

);

**Create** **table** Projects (

Code Char(4),

Name Char(50) **not** **null**,

Hours int,

**Primary** **Key** (Code)

);

**create** **table** AssignedTo (

Scientist int **not** **null**,

Project char(4) **not** **null**,

**Primary** **Key** (Scientist, Project),

**Foreign** **Key** (Scientist) **references** Scientists (SSN),

**Foreign** **Key** (Project) **references** Projects (Code)

);

Sample dataset

**INSERT** **INTO** Scientists(SSN,Name)

**VALUES**(123234877,'Michael Rogers'),

(152934485,'Anand Manikutty'),

(222364883, 'Carol Smith'),

(326587417,'Joe Stevens'),

(332154719,'Mary-Anne Foster'),

(332569843,'George ODonnell'),

(546523478,'John Doe'),

(631231482,'David Smith'),

(654873219,'Zacary Efron'),

(745685214,'Eric Goldsmith'),

(845657245,'Elizabeth Doe'),

(845657246,'Kumar Swamy');

**INSERT** **INTO** Projects ( Code,Name,Hours)

**VALUES** ('AeH1','Winds: Studying Bernoullis Principle', 156),

('AeH2','Aerodynamics and Bridge Design',189),

('AeH3','Aerodynamics and Gas Mileage', 256),

('AeH4','Aerodynamics and Ice Hockey', 789),

('AeH5','Aerodynamics of a Football', 98),

('AeH6','Aerodynamics of Air Hockey',89),

('Ast1','A Matter of Time',112),

('Ast2','A Puzzling Parallax', 299),

('Ast3','Build Your Own Telescope', 6546),

('Bte1','Juicy: Extracting Apple Juice with Pectinase', 321),

('Bte2','A Magnetic Primer Designer', 9684),

('Bte3','Bacterial Transformation Efficiency', 321),

('Che1','A Silver-Cleaning Battery', 545),

('Che2','A Soluble Separation Solution', 778);

**INSERT** **INTO** AssignedTo ( Scientist, Project)

**VALUES** (123234877,'AeH1'),

(152934485,'AeH3'),

(222364883,'Ast3'),

(326587417,'Ast3'),

(332154719,'Bte1'),

(546523478,'Che1'),

(631231482,'Ast3'),

(654873219,'Che1'),

(745685214,'AeH3'),

(845657245,'Ast1'),

(845657246,'Ast2'),

(332569843,'AeH4');

Exercises

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.

https://upload.wikimedia.org/wikipedia/commons/1/10/MediaWiki_Vector_skin_action_arrow.pngClick to see solution

**SELECT** S.Name, P.Name, P.Hours

**FROM** Scientists S

**INNER** **JOIN** AssignedTo A **ON** S.SSN=A.Scientist

**INNER** **JOIN** Projects P **ON** A.Project=P.Code

**ORDER** **BY** P.Name **ASC**, S.Name **ASC**;