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**Subject: 31061 32606 Database Principles - Spring**

**1)** **Using ED, get the output shown below.**

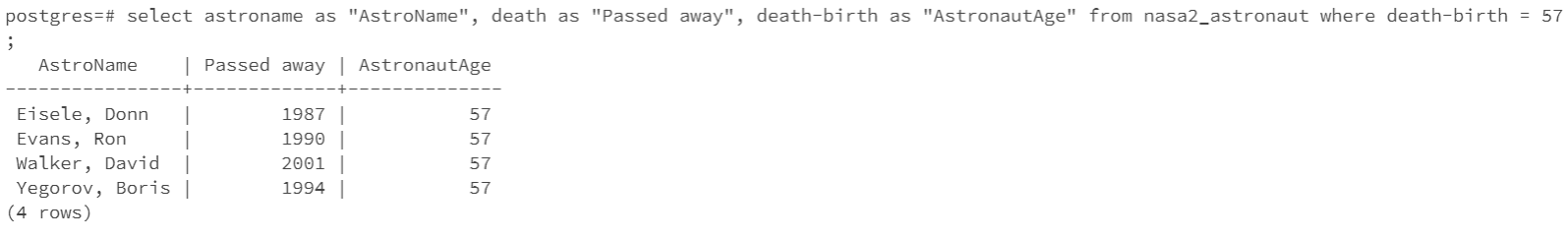
**2)** **Upload on to canvas the screenshot of your output along with your SQL code.**

**Question 1.**

List all astronauts’ names, year of death, and age at year of death who died at the age of 57.

Query:  
select astroname as "AstroName", death as "Passed away", death-birth as "AstronautAge" from nasa2\_astronaut where death-birth = 57;

**Query+Output**



**Question 2.**

List the missions (projectname, missionno) and launchYear of all missions launched before 1985 by spacecraft named “Challenger”. Order by the launch year.

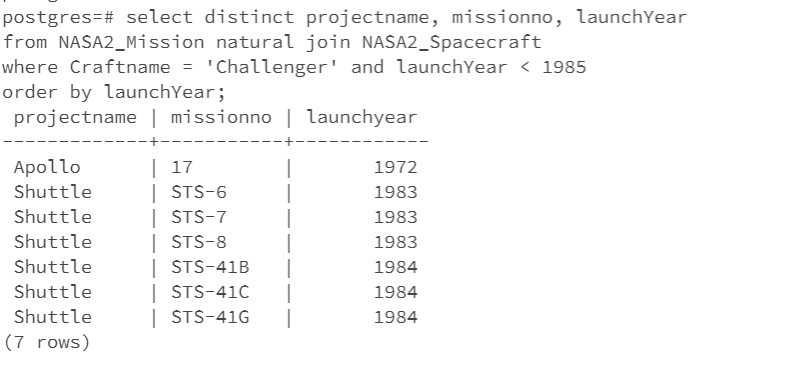
Query: select distinct projectname, missionno, launchYear

from NASA2\_Mission natural join NASA2\_Spacecraft

where Craftname = 'Challenger' and launchYear < 1985

order by launchYear;

**Query+Output**



**Question 3.**

Re-express the above natural join query as a cross product

Query: select NASA2\_Mission.projectname, NASA2\_Mission.missionno, launchYear

from NASA2\_Mission, NASA2\_Spacecraft

where NASA2\_Mission.projectname = NASA2\_Spacecraft.projectname

and NASA2\_Mission.missionno = NASA2\_Spacecraft.missionno

and Craftname = 'Challenger' and launchYear < 1985

order by launchYear;

Query+Output

