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**Database Systems (IS273)**

Page path

* [Dashboard](http://lmsweb.aast.edu/my/) / ►
* My courses / ►
* [Database Systems (IS273)](http://lmsweb.aast.edu/course/view.php?id=2682) / ►
* Week 12 / ►

**Question 1:**

Consider a Small Private Airport database that is used to keep track of airplanes, their owners, airport employees, and pilots. From the requirements for this database, the following information was collected:

* Each **Airplane** has a *Registration Number (Unique)*, is of a particular *Plane Type*, and is stored in a particular *Hangar*.
* Each **Plane** Type has a *Model Number*, a *Capacity*, and a *Weight*.
* Each **Hangar** has a *Number*, a *Capacity*, and a *Location*.
* The database also keeps track of the **Owners** of each **plane** and the **Employees** who have maintained the **plane**.
* An **Owner** is either a **Person** or a **Corporation**. Also, the airport keeps track of the *Purchase Date*.
* Each Owner Person has *Social Security Number (SSN)*, *Name*, *Address*, and *Telephone Number.*
* For Owner Corporation, the airport kept track of *Name*, *Address*, and *Telephone Number*.
* Also, Each Employee has *Social Security Number (SSN)*, *Name*, *Address*, *Telephone Number, Salary* and *Shift.*
* The airport also keeps track of the **types of planes each pilot is authorized to fly**and the **types of planes each employee can do maintenance work on it**.
* Each PILOT has *Social Security Number (SSN)*, *Name*, *Address*, *Telephone Number*, *License Number* and *Restrictions*.
* Each plane undergoes service many times; A Service record includes as the date of maintenance, the number of hours spent on the work, and the type of work done.

**Draw the ER Diagram and Implementation model for these requirements. Document any assumptions that you make during the mapping if needed.**

**Question 2**

Using the **Standard Company Database**, write an [SQL](http://lmsweb.aast.edu/mod/zoom/view.php?id=38449) Query to list the Employees First Name and Last Name and SSN who are playing double roles (Supervisor & Supervises). Its required to write this query**two times** using:

1.       The **INTERSECT**Command

2.       The **IN**Operator

**Submission status**

|  |  |
| --- | --- |
| Submission status | No attempt |
| Grading status | Not graded |
| Due date | Wednesday, 6 May 2020, 12:00 PM |
| Time remaining | 1 day 9 hours |
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Top of Form



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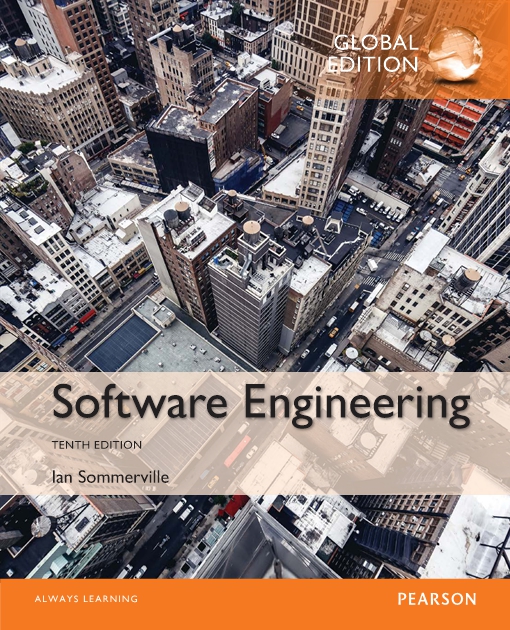
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      * Week 12
        + [**12 Assignment**](http://lmsweb.aast.edu/mod/assign/view.php?id=69827)
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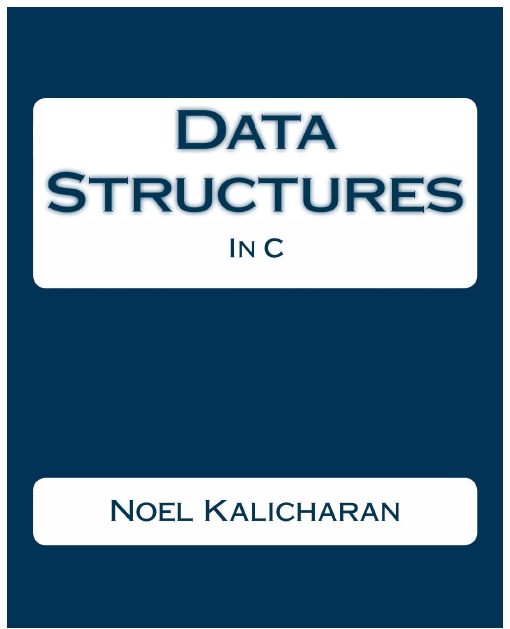
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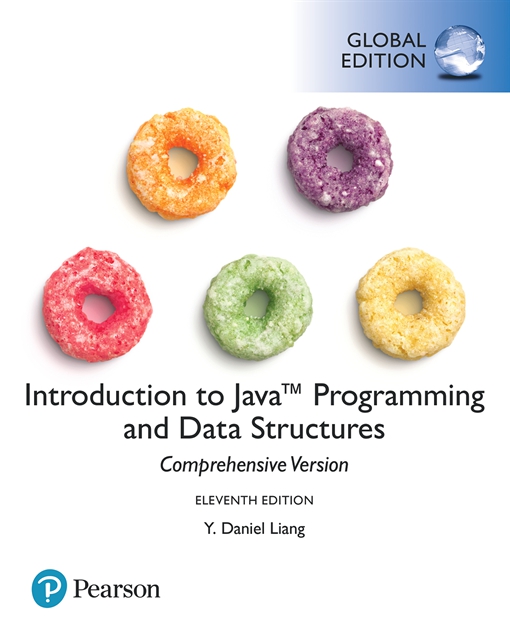
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