Write the following queries in relational algebra

1. Find every department that has a location in Chicago

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1. Find every project managed by a department with a location in Chicago

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1. Find every department whose manager works on a project managed by a department with a location in Chicago

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1. Find every department that doesn’t have a location in Chicago

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1. Find every department that manages at least two projects

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1. Find every employee who manages at least three departments

1. Find every employee who neither has any supervises nor manages any department

1. Find every employee who either has no supervisees or manages no department (or both)
2. Find every employee who supervises exactly two other employees