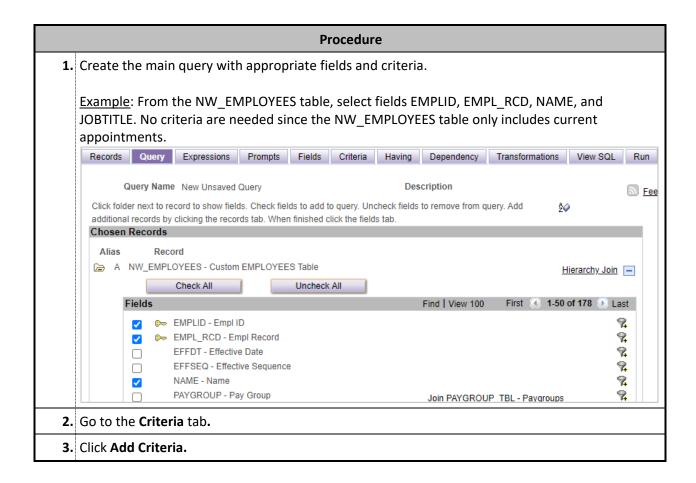
In myHR Query Manager, subqueries can be used to implement complex selection criteria. A subquery is like a helper query within the larger report. The output of the subquery is used to filter the main query. In Query Manager, subqueries can only be used for criteria, they cannot be used to add new columns to the data.

<u>Example</u>: In this job aid, we will construct an example query that shows all current appointments for employees with named professorships. A subquery will identify employee IDs of people with named professorships, and then the main query will display all of their current appointments.



4. Choose the Condition Type.

- **in list** the subquery returns a list of values and the main query only incudes entries that match the list. **In list** is typically used when the subquery returns a list of ID numbers.
- **not in list** similar to the **in list** option, but the main query *excludes* the items that match the subquery results.
- **equal to** a field in the main query exactly matches the single value returned by the subquery. **Equal to** is typically used with dates and sequence numbers.
- **not equal to** similar to the **equal to** option, but the main query *excludes* items that match the subquery results.
- **greater than** / **less than** similar to the **equal to** option, but can be used to include a number of items in the main query.
- exists items in the main query will be included if the subquery returns any results. The subquery includes criteria that link the subquery and the main query. Exists is used instead of in list when matching on multiple fields is needed, such as A.EMPLID =
 B.EMPLID AND A.EMPL_RCD = B.EMPL_RCD. In some cases, exists runs faster than in list.
- **does not exist** similar to the **exists** option, but the main query items are included if the subquery *does not return* any results. Sometimes, a **does not exist** subquery can be used instead of the combination of a left outer join and an **is null** criterion.

<u>Example</u>: Select the **in list** option for **Condition Type**. The main query will include any employee whose employee ID is returned by the subquery.

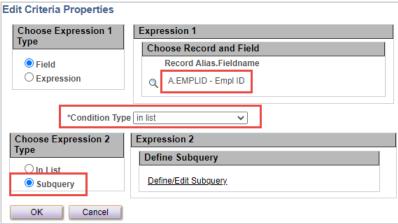
5. Choose **Expression 1.**

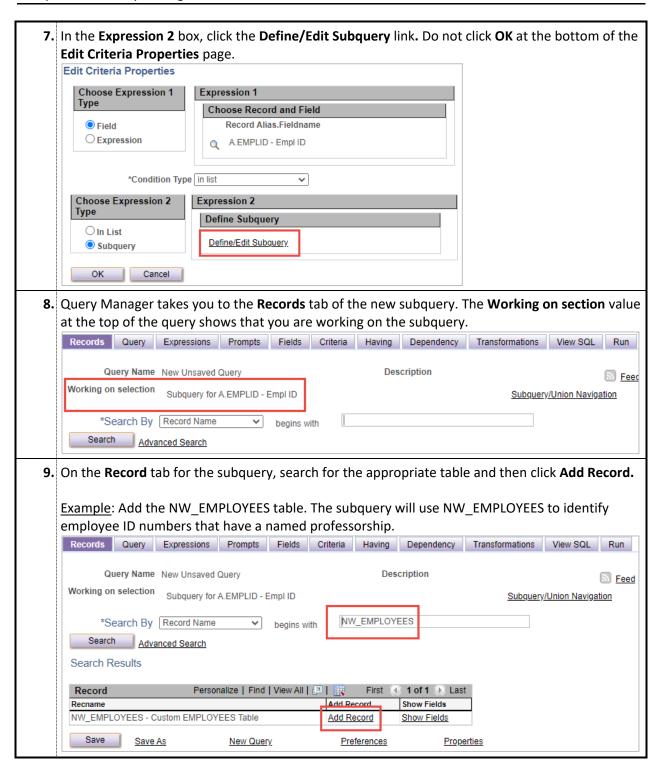
When using **Condition Type** of **exists** or **does not exist**, there is no **Expression 1** needed because we are not comparing the output of the subquery to any field in the main query.

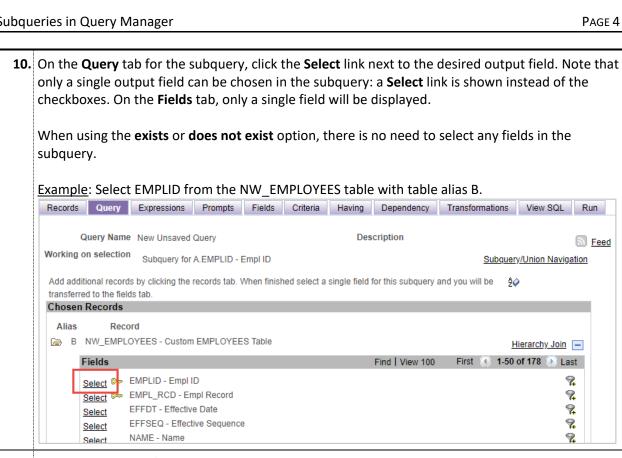
<u>Example</u>: Select A.EMPLID for **Expression 1**. The main query will include any employee whose employee ID is returned by the subquery.

6. In the **Choose Expression 2 Type** box, select the **Subquery** radio button option.

<u>Example</u>: The screen shot below shows the **Edit Criteria Properties** page for the named professorship example.







11. On the Criteria tab for the subquery, add the necessary restrictions. When choosing Expression 1, make sure to **Show Fields** for the subquery table, not the main query table.

When using the exists or does not exist option, add criteria that link the subquery to the main query. (E.g. A.EMPLID = B.EMPLID AND A.EMPL RCD = B.EMPL RCD.)

Example: Add criteria for B.NW POSN CATEGORY equal to END. END is the code for named professorships.

