# Joins, Sets, and Subqueries Practice

Here are a set of practice questions to prepare for the exam. You will need to use various SQL techniques to answer these problems. You may wish to challenge yourself to come up with multiple solutions to some of the problems.

Use the A3 schema for these practice questions. The schema is a read only set of tables that you have access to. Remember to access these tables in your queries you’ll need to use A3.TableName.

* Create a query to show a list of employees’ names, what projects they’ve worked on (project names), and each instance of them working on those projects (date, hours worked). This will be used for payroll.
* Some employees haven’t been entering their time right! Their manager should be contacted so that they can be “coached” to avoid this in the future. Find the employees who have null entries in the workson table under hoursworked and list their names, dept , manager, and manager’s phone number. List each employee only once.
* Determine which employee has worked the most total hours between Nov 1st and Nov 10th inclusive and the employee which has worked the least total hours for that date range. For output show Employee Name, Total Hours, and either “Most Hours” or “Least Hours”.
* Determine the oldest employee for each department. Show name, dob, deptno.
* The network admins are considering switching user names to the first name of the user plus the first letter of their last name. They need to see a list of first name and last name for every employee that has at least one other employee with that same first name.