

3. Specify the following queries in relational algebra for the **COMPANY** database (Figure 1).

(a) Retrieve Social Security Numbers of all employees whose first name is 'Graham'. [6]

(b) Retrieve names of Alan J. Baker's dependents. [6]

(c) Retrieve the last names of all employees supervised by the manager of Department No. 3. [6]

(d) Find the last names of employees who work on all the projects controlled by Department No. 1. [7]

Total mark for this question: 25