

**Instructions to Students:**

Draw an Entity relationship model for the following case study.

**Learning Outcomes:**

- Write good names and definitions for entities, relationships, and attributes
- Resolve many-to-many relationships
- Draw E-R diagrams for common business situations
- Demonstrate understanding of degrees of relationship
- Model different types of attributes, entities, relationships, cardinalities and constraints

**Instructions to Students:**

Draw a detailed conceptual ERD representing all the organisational data that must be managed by the database system described below. The diagram should represent entities, relationships, attributes (PK and FK). Also where appropriate in the design show cardinality and constraints. Ensure you state any assumptions and carry out research to gain further understanding of the environment.

**The Scenario:****Recruitment Agency**

A recruitment agency specialises in recruitment in the local area. The agency has an extensive network of contacts to source jobs for those seeking employment. The recruitment agency locates jobs for clients looking for employment. A database system is used to locate the best fit of job for and person seeking employment. Also prospective employers upload vacancy information looking for the ideal person to recruit for a position.

As a job seeker you can upload your CV via the recruitment agency's website. Before you can upload your CV or view any of the current vacancies you are required to create a login and password. The uploaded CV must contain a number of key information about the job seeker such as personal details, history of employment and professional and academic qualifications. Also two references are required.

For employers wanting to fill a vacancy, information about a job is uploaded via the recruitment agency's website. The employer has an account from which they use to upload the latest vacancy and can see a history of vacancies previously uploaded. The vacancy must contain information about the job role, specific skills required and the salary information.

A recruitment consultant manages a number of job seeker clients and will put forward CV's for a job to the prospective employers. Prospective employers will liaise with the consultant if they require the client to attend interview and if they are offering the position. The consultant earns a commission for every successful candidate recruited.