Exercise 1 (5 marks)
Based on the following E-R diagram, answer the following questions:

a. (0.5 pts) How many projects the employee work on?

An employee can work on one-to-many projects.

b. (0.5 pts) What is the degree of the Includes relationship?

The Includes relationship is a binary relationship.

c. (0.5 pts) Are there any associative entities on the diagram? If so, name them

No associative entities are directly shown by the associative entity. The only many-to-many relationship, Works On, has no attributes, so it does not need to be shown as an associative entity.
d. (1 pts) How else could the attribute Skill be modeled?

The SKILL attribute can be modeled as weak entity.

NB. If any student write only entity, it is ok

e. (0.5 pts) Is it possible to attach any attributes to the Includes relationship?

It is not possible for the Includes relationship to have attributes because it is a one-to-many relationship. Only one-to-one and many-to-many relationships are allowed to have attributes.

f. (2 pts) Transform the above E-R diagram into a physical model?

You can use Power Designer to get the answer