Project Management - Production Order

Transfer the following verbal description into an ERM:

a) A project (Proj-#) consists of work packages (WP-#), which are connected to a hierarchical structure; each work package, except those of the highest hierarchy level is assigned to exactly one work package of the next higher hierarchy level.

b) There are employees (SI-ID) who are active in work packages (possibly also several ones), a work package can also employ several employees. Each work package has exactly one responsible person; Employees can be responsible for several work packages.

c) Production orders (Prod-#) can be classified as those generated by projects and those which are manufactured to stock. The former are assigned to exactly one work package; a work package can also activate several production orders.

d) Each production order is assigned to exactly one routing (RO-#) and one scheduling variant (SV-#).

Proj-#

Hierarchy
1   n

Project — 1 — Consist of — n — Work Package — n

WP-#

WP-#,SI-ID

Responsible

Assign to
n

Employ
1   n   m

Responsible

To Stock Manuf.   Project oriented Manuf.

Employee — 1

SI-ID

Is a
n

Production Order   n

Prod-#

Assign to
1   Assign to
1

Routing   Scheduling Variant
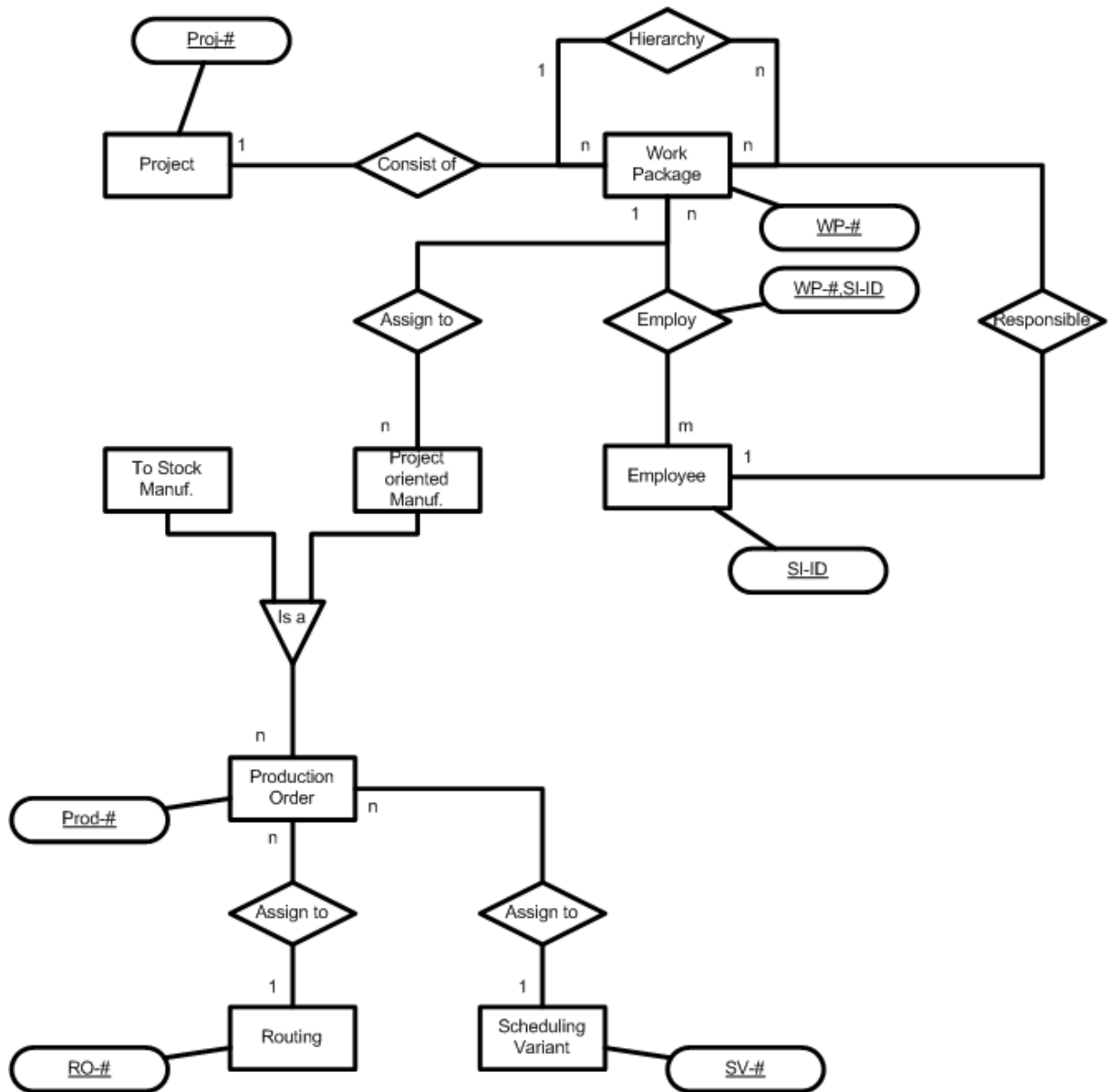
RO-#   SV-#

Project

Proj-#	..

Employee

SI-ID	..

Work Package

WP-#	HWP-#	Proj-#	SI-ID	..

Employ

SI-ID	WP-#	..

Production Order

Prod-#	RO-#	SV-#	WP-#	Type-#	..

Routing

RO-#	..

Scheduling Variant

SV-#	..