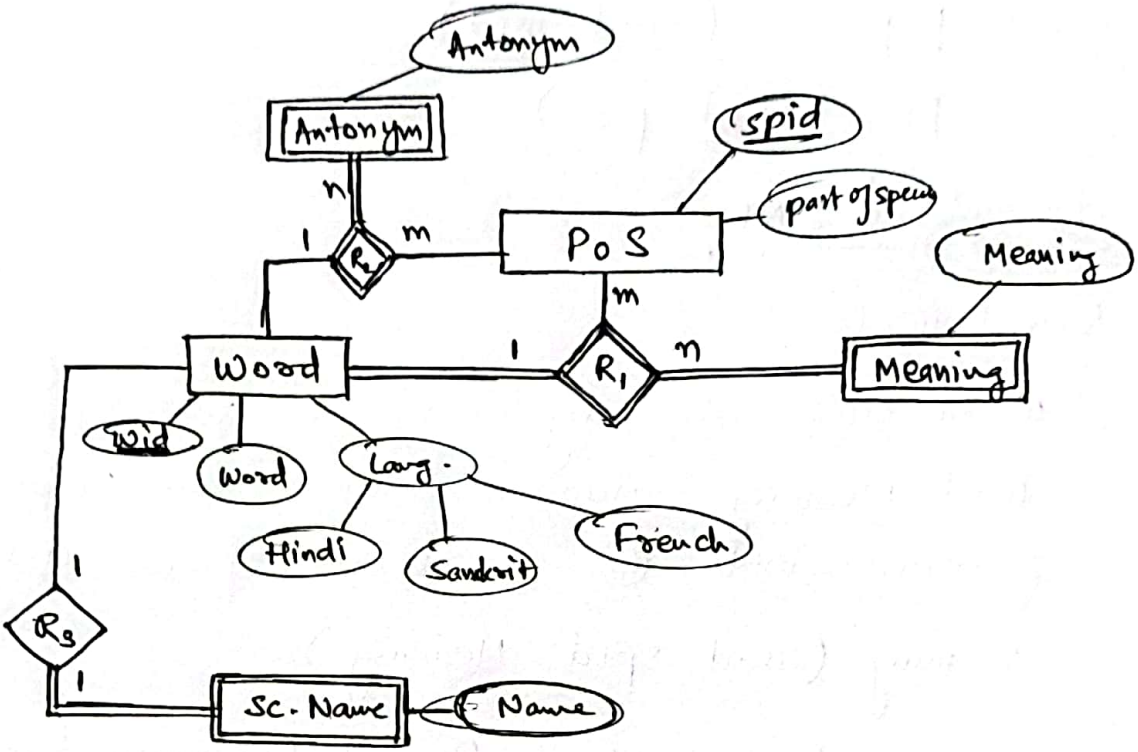
Entities

1. Word
2. PoS
3. Meaning
4. Sc. Name
5. Antonym

E-R Model



Tables

1. Word (<u>Wid</u>, Word, Hindi, Sanskrit, French)
2. R_1 POS (Wid, <u>spid</u>, Part of speech)
3. Word R_1 Meaning (<u>Wid</u>, Word, Hindi, Sanskrit, French, Meaning)
4. R_1 Meaning (<u>spid</u>, meaning)
5. R_2 Antonym (<u>spid</u>, antonym)
6. Word R_2 Antonym (<u>wid</u>, Word, Hindi, Sanskrit, French, antonym)
7. R_3 Sc. Name (<u>wid</u>, Name)

1 → Normalised
7 → Normalised

2, 3, 4, 5, 6 to be normalised.

Normalising ②:

1 NF ✓

Further: Divide in 2 tables:

pspeech (spid, wid)

pos (spid, pos)

Normalized 2NF.

Normalising ③:

Word table already exists.

Wid, Meaning column make a new table which combines with ④ for lesser space utilisation.

Meaning (wid, spid, Meaning)

wid and spid form Partial Discriminator key.

⑤ & ⑥ similarly form Antonym (wid, spid, Antonym).

Wid and spid form Partial Discriminator key.

⑦ forms sc_name (wid, name)

Finally after normalization we get following:

- Word (wid, word, Hindi, Sanskrit, French)
- pspeech (wid, spid)
- pos (spid, pos)
- Meaning (wid, spid, Meaning)
- Antonym (wid, spid, antonym)
- sc_name (wid, name)