



Figure 1: E-R Diagram for a bus company scenario

Notation:

- *Primary key* — underlined
- *Discriminator* — underlined with dashes
- *Defining relationship* — doubled diamond
- *Cardinality of one* — arrow
- *Total participation* — doubled line
- *Multivalued attributes* — in curly braces
- *Relationship attributes* — connected to the relation with a dashed line

Notes:

- in the **Book** relation, if a book has more than one author, their names are stored in the attribute **author**, separated by commas.
- in the **Edition** relation, admissible values of the attribute **edition** are positive integers, and admissible values of the attribute **type** are audiobook, hardcover, and paperback.
- in the **Reviews** relationship, admissible values of the attribute **Rating** are 1, 2, 3, 4, 5.