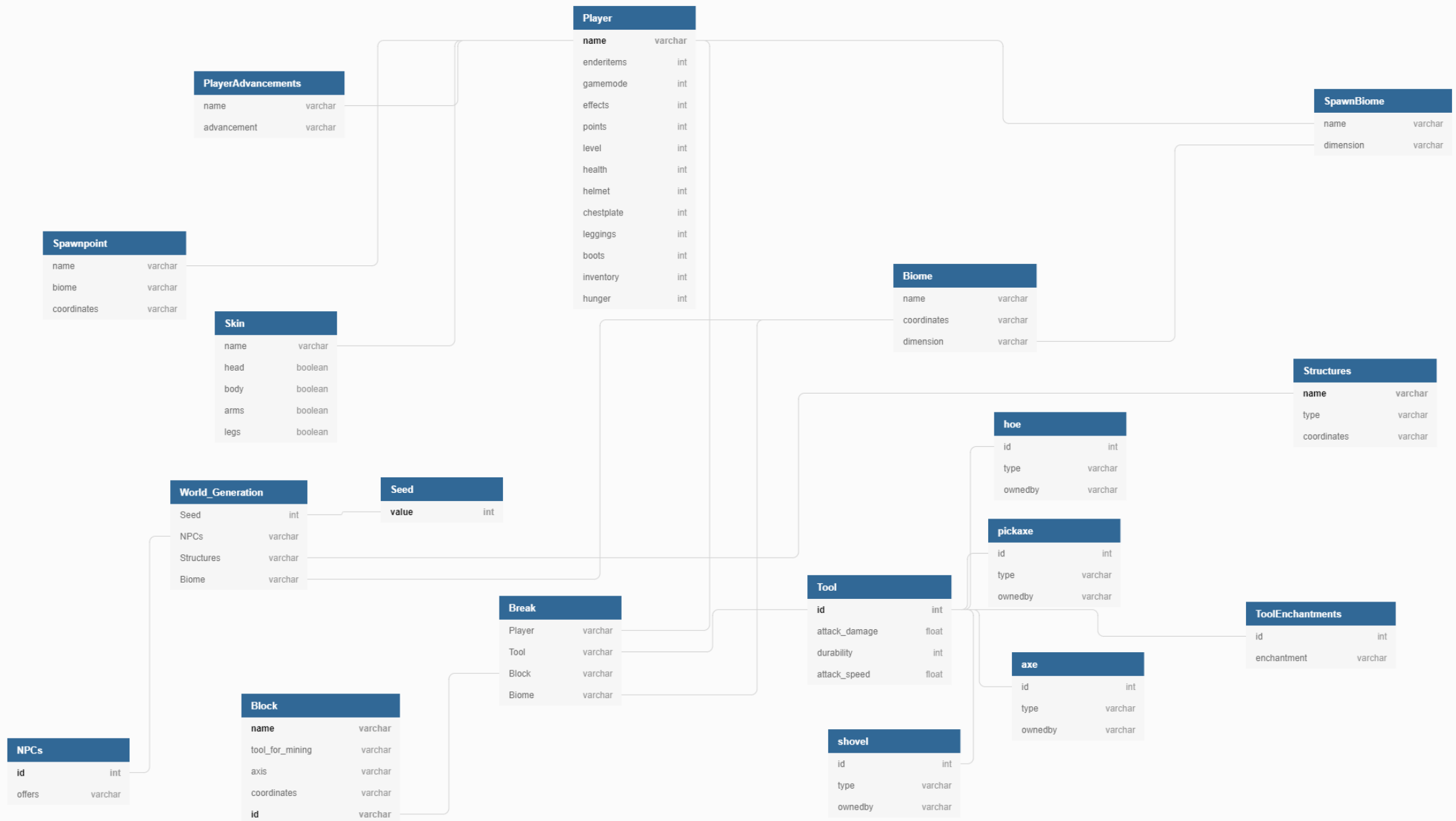


# Relational Model

The EER diagram was converted to a relational model,



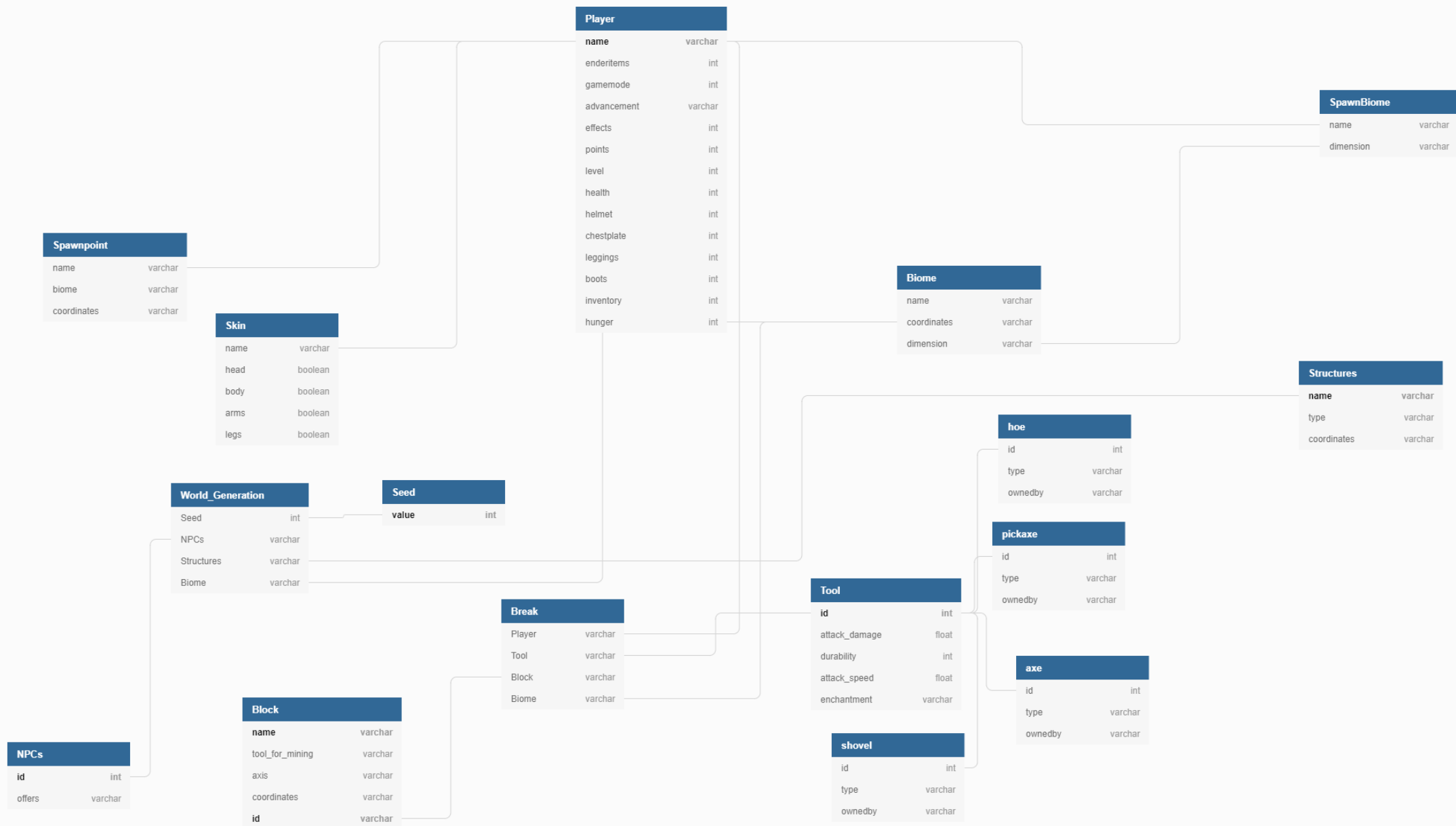
- **Relational model after conversion to 1NF:**

While making the original model we had already handled the composite attributes by adding its composites to the relation.

For example: Composites of armor i.e. helmet, chestplate etc. were added to the attributes of the player.

For the multivalued attributes which originally had a separate table with the primary key of the entity as a foreign key were also directly added to the relation.

For example: Player advancements was an individual table which was moved to player as an attribute.



- **Relational model after conversion to 2NF:**

There were some partial dependencies in relation block as non-prime attributes were dependent on id and name which are proper subsets of the candidate key for block.

We solved this by splitting that table into 2 more with each table having one element of the candidate key and attributes that are dependent on it.

For example: id was grouped with axis and coordinates while tool\_for\_mining was grouped with name.



- **Relational model after conversion to 3NF:**

The model is already in the third normal form as it does not have any transitive dependencies.