meaning of column properties
cribbed from MySQL Workbench: Data Modeling & Development, Michael McLaughlin, Oracle Press, 2013

PK  Designates a primary key column.

NN  Designates a not-null column constraint.

UQ  Designates a column contains a unique value for every row.

BIN Designates a VARCHAR data type column so that its values are stored in a case sensitive fashion. You can’t apply this constraint to other data types.

UN  Designates a column contains an unsigned numeric data type. The possible values are 0 to the maximum number of the data type, like integer, float, or double. The value 0 isn’t possible when you also select the PK and AI check boxes, which ensures the column automatically increments to the maximum value of the column.

ZF  Designates zero fill populates zero in front of any number data type until all space is consumed, which acts like a left pad with zeros.

AI  Designates AUTO_INCREMENT and should only be checked for a surrogate primary key value.

online links

further discussion of BIN (technically _bin collations)

discussion of why one might (not) want to use zerofill

unsigned ints