For relation

First from these FDs we know that M, R and P must be in the key since they only appear on the left side of the FD.

The key is MRP.

1. The FDs that violate BCNF are

All of them.

1. Employ BCNF decomposition until the relations are lossless, non-redundant

We start with .

So

After decomposition, the FDs projected will be . The rest of the FD will stay since they have M on the LHS.

does not satisfy the BCNF since and is not the super-key.

Decompose via

So and both satisfies BCNF since only one FD is projected on each.

Onto , we decompose via

So

No FD is projected onto since MRP is only on the left side of FDs.

All FD goes to

does not satisfy BCNF because

Decompose via

So and

Again, the FD projects to is and .

Both satisfy BCNF.

In conclusion,