Task P3.1.2

Question

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P_Code	P_Name	Instructor	Term	Duration (Hrs)	Hourly_Rate	Room_NO
P1	Visual Basic	Dennis	15-1	7	20	A1
P1	Visual Basic	Dennis	15-2	7	30	A2
P2	SQL	Jason	15-1	4	10	A4
P2	SQL	Jason	15-2	4	20	A5
P3	C++	Joseph	15-1	5	30	A3
P3	C++	Joseph	15-2	5	20	A7
P4	Java	Rys	15-2	6	10	A9

Identify the most suitable **primary key** for the table above and explain how this key uniquely defines all other attributes.

Answer:

Combination of "P_Code" and "Room_NO"

In this example each Room_NO is unique but, for the larger datasets there can be **repetition** in Room_NO as well so to make each primary key unique (for the larger dataset as well) I choose the Combination of "P Code" and "Room NO".

Secondly, the primary key should be something which is **most efficient to search** through like an integer but in this case, it is not possible so I choose attribute with least amount of alphabets in it to make the process of querying database quicker.

Primary key must not contain any null values, and this combination exclude that possibility as well for larger dataset.