What is the 3NF? Explain with an example. You don't need to draw the tables or write the queries. Just mention the schema before and after the third normal form.

A table is in 3NF, it means

- 1) It is in 2NF
- 2) It should not have transient dependency. I.e $a \to b$ and $b \to c$ and therefore $a \to c$.(it should not have this). In other words, a non-prime attribute should not be dependent on another non-prime attribute.

Student_id	City	State	pincode	
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state

Should be changed to schemas below because every time you change the pincode, you have to change the city and state.

Student_id	Pincode	

city

Now, it is in 3NF.

Pincode