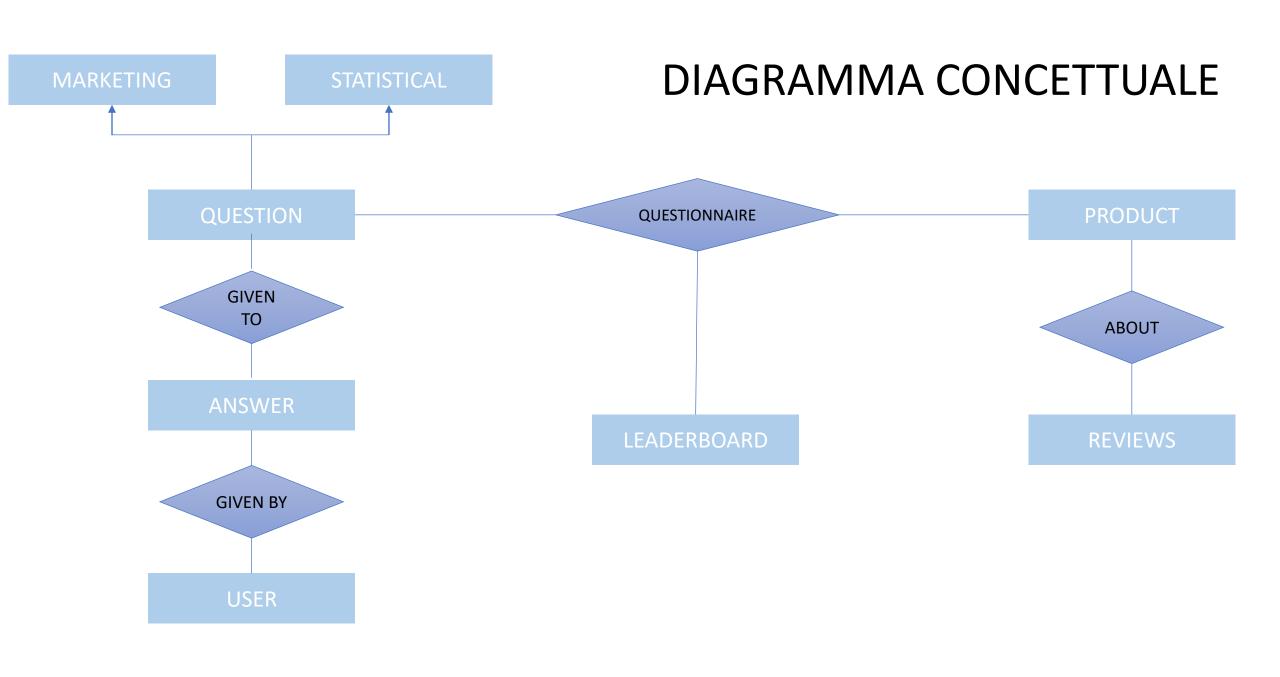
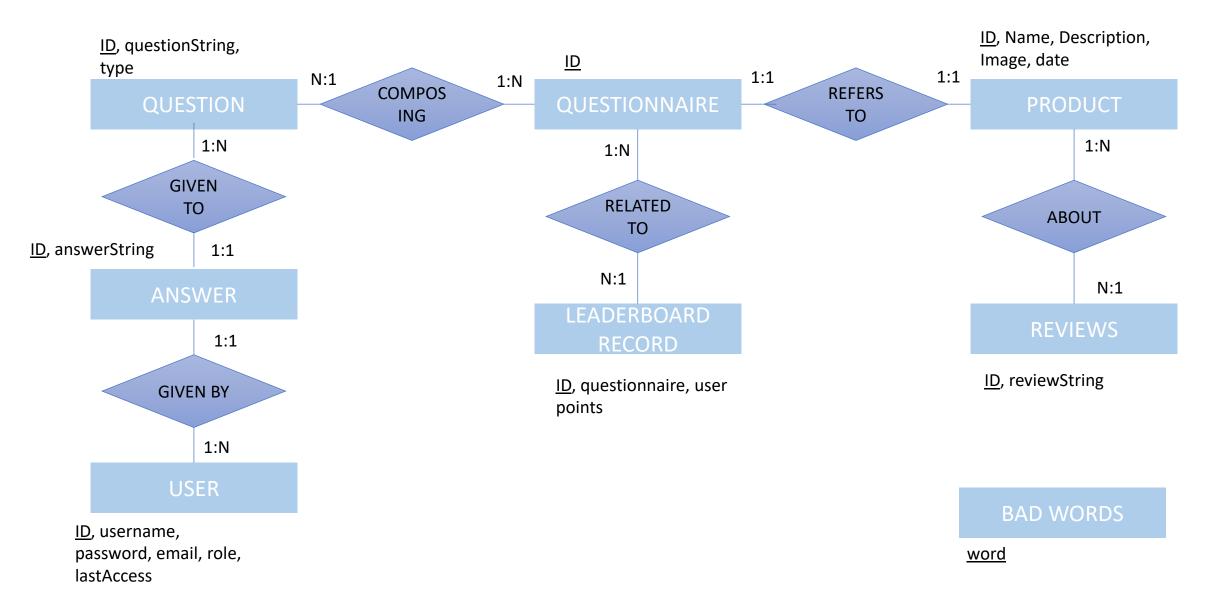
# GAMIFIED APPLICATION

**LORENZO MALE 10800440** 



#### DIAGRAMMA E-R FINALE



#### SCHEMA LOGICO

REVIEW(<u>ID</u>, reviewString, **product**)

PRODUCT(<u>ID</u>, Name, Description, Image, Date)

QUESTIONNAIRE(<u>ID</u>, **Product**)

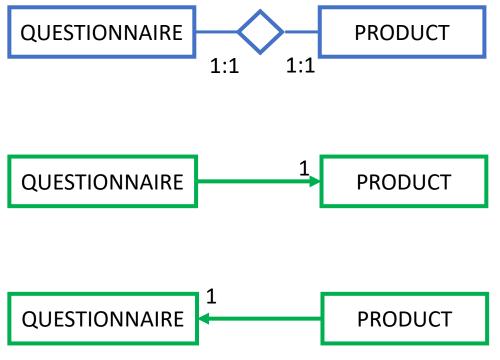
LEADERBOARD RECORD(ID, Questionnaire, User, points)

QUESTION(<u>ID</u>, questionString, questionType, **Questionnaire**)

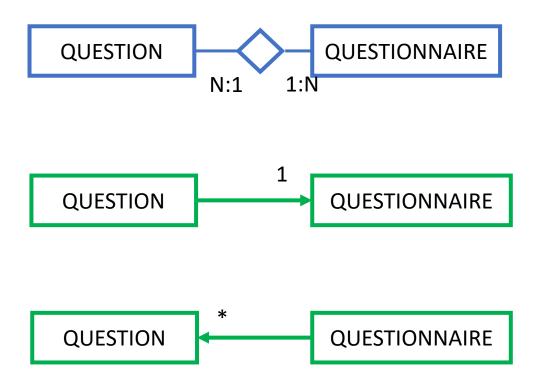
ANSWER(ID, answerString, Question, User)

USER(ID, username, password, email, role, lastAccess)

BAD WORD(word)



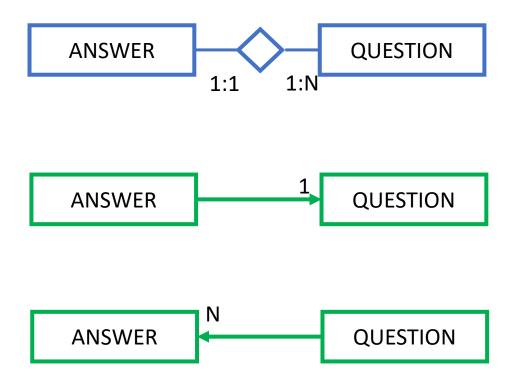
- questionnaire product
  @OneToOne is necessary
  - Owner = questionnaire
  - Remove can be cascaded
- - Remove cascaded
  - Persist cascaded



Question Questionnaire
 @ ManyToOne necessary

Owner = question

- Questionnaire → Question @OneToMany mapped to reach questions in the questionnaire
  - FetchType LAZY
  - Remove and persist cascaded



- answer question
  @ManyToOne is necessary to retrieve answer's question
  - Owner = answer
  - Remove can be cascaded
- question → answer@ManyToOne
  - Remove cascaded
  - orphanRemoval=true

