Faculty of Engineering

Computer Engineering Department

CMP2020

INTRODUCTION TO DATABASE SYSTEMS

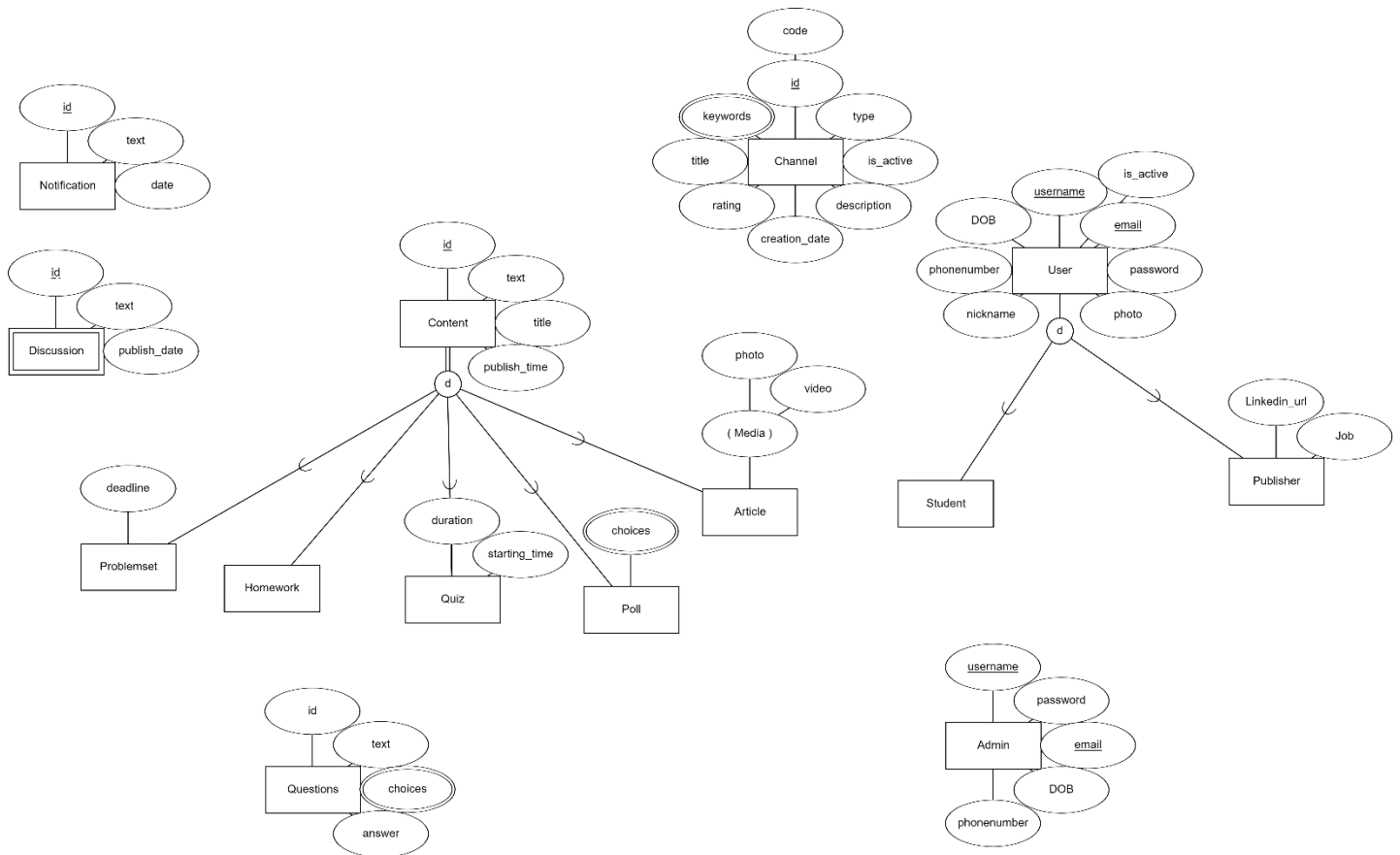# 3702_Platform

DATABASE SCHEMA REPORT

TEAM NUMBER: 16

TEAM MEMBERS:

- AHMED KAMAL ABDELRASOL   SEC: 1   ID: 9220075
- AHMED MOSTAFA ATTIA   SEC: 1   ID: 9220110
- ALI SAMY   SEC: 2   ID: 9220497
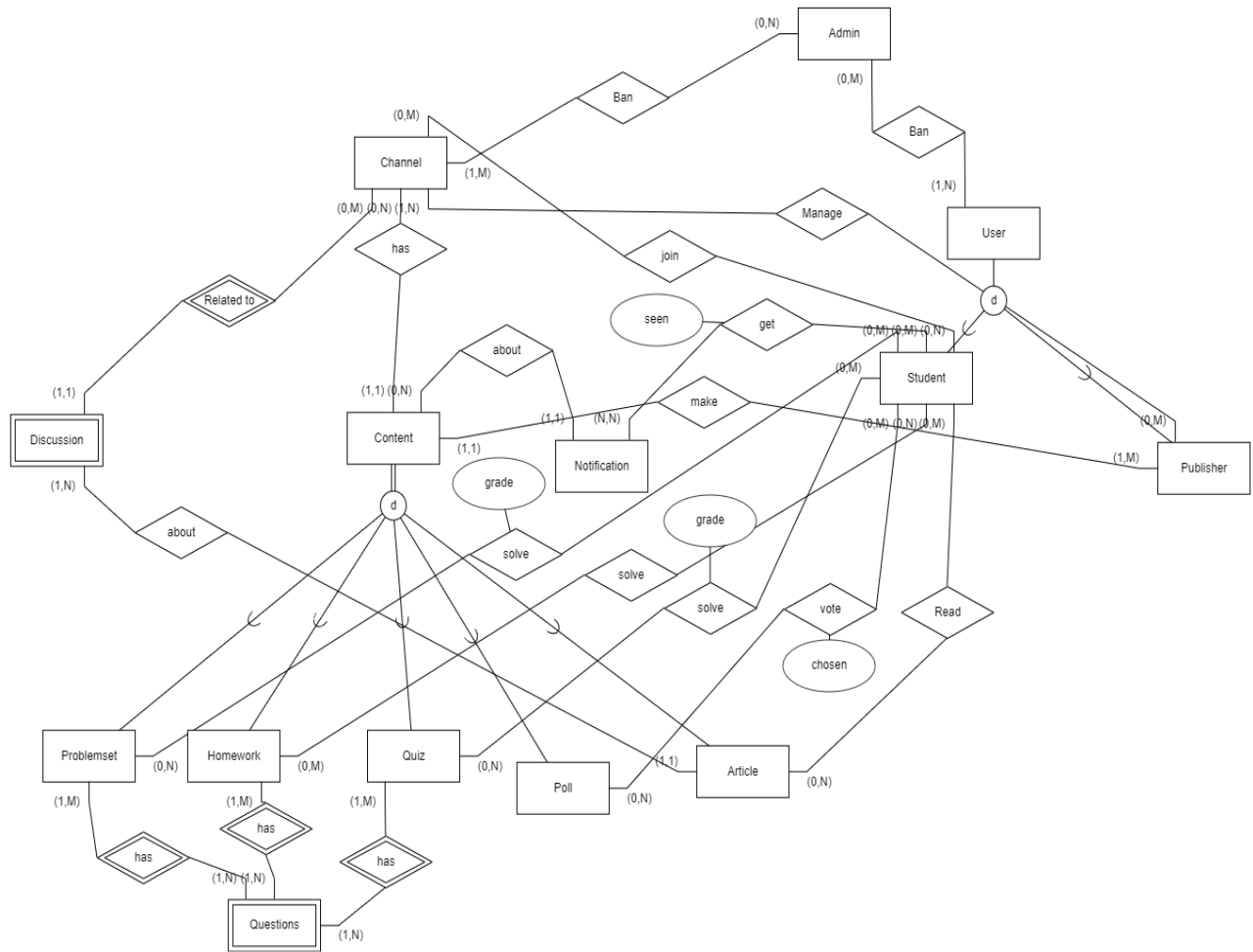
CONTACT INFO:

- AHMED KAMAL   AHMEDKAMAL200427@GMAIL.COM
- AHMED MOSTAFA   AHMED125.AM13@GMAIL.COM
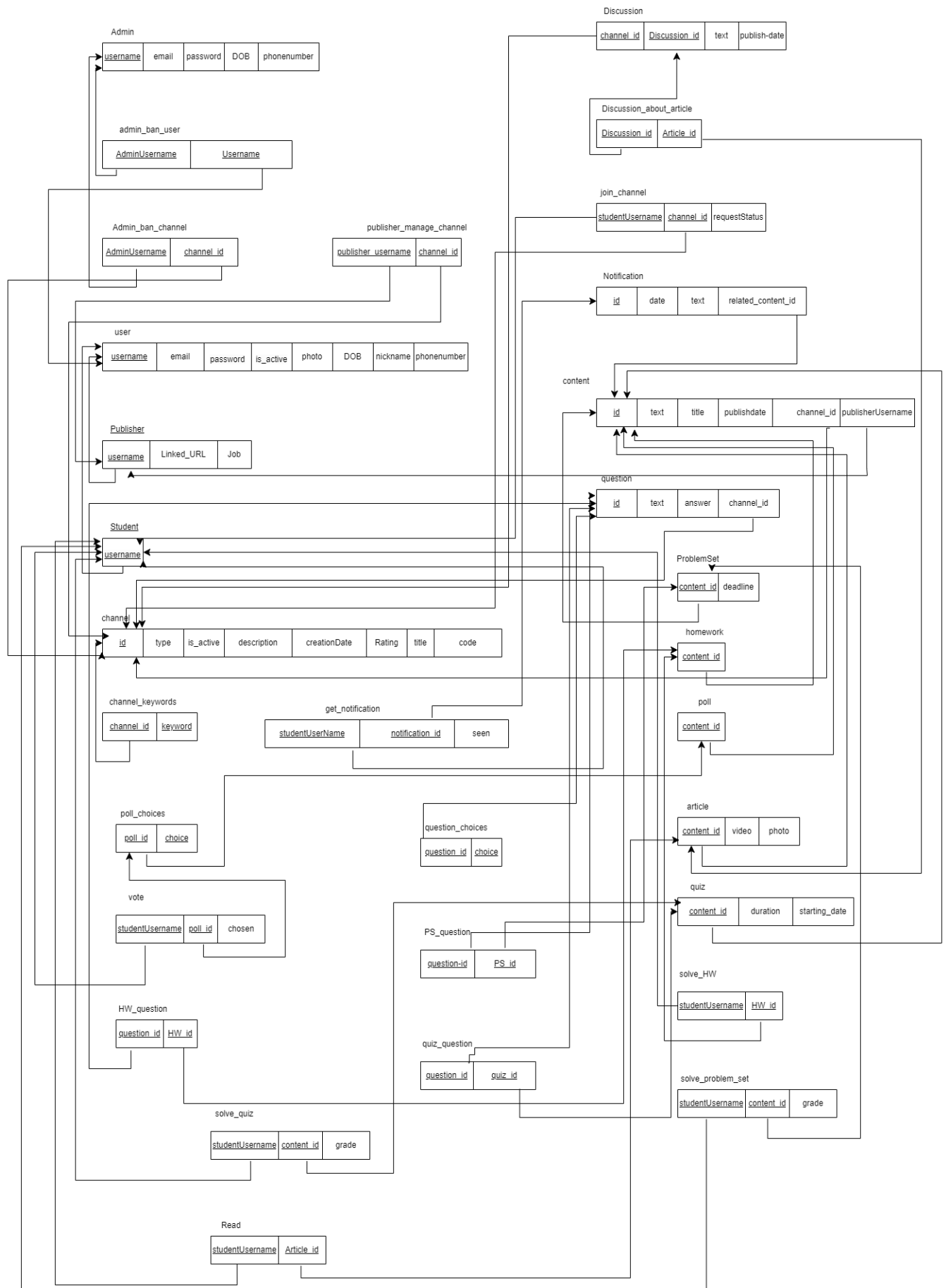- ALI SAMY ALISAMY404@GMAIL.COM

ER DIAGRAM :

PART I : ENTITIES WITH ATTRIBUTES:

PART II: ENTITIES WITH THEIR RELATIONSHIPS:

SCHEMA DIAGRAM :

Admin

username	email	password	DOB	phonenumber

admin_ban_user

AdminUsername	Username

Admin_ban_channel

AdminUsername	channel_id

publisher_manage_channel

publisher_username	channel_id

user

username	email	password	is_active	photo	DOB	nickname	phonenumber

Publisher

username	Linked_URL	Job

Student

username

channel

id	type	is_active	description	creationDate	Rating	title	code

channel_keywords

channel_id	keyword

get_notification

studentUserName	notification_id	seen

poll_choices

poll_id	choice

vote

studentUsername	poll_id	chosen

question_choices

question_id	choice

HW_question

question_id	HW_id

PS_question

question-id	PS_id

quiz_question

question_id	quiz_id

solve_quiz

studentUsername	content_id	grade

Read

studentUsername	Article_id

Discussion

channel_id	Discussion_id	text	publish-date

Discussion_about_article

Discussion_id	Article_id

join_channel

studentUsername	channel_id	requestStatus

Notification

id	date	text	related_content_id

content

id	text	title	publishdate	channel_id	publisherUsername

question

id	text	answer	channel_id

ProblemSet

content_id	deadline

homework

content_id

poll

content_id

article

content_id	video	photo

quiz

content_id	duration	starting_date

solve_HW

studentUsername	HW_id

solve_problem_set

studentUsername	content_id	grade

DATABASE CONSTRAINTS:

1. Foreign key (adminUsername) in (admin_ban_USER) relation references admin : on delete restrict , on Update cascade
2. Foreign key (publisherusername) in (admin_ban_user) relation References user : on delete cascade , on update cascade
3. Foreign key(adminUsername) in (admin_Ban_channel) relation references Admin : on delete restrict , on update cascade
4. Foreign key (channel_id) in (admin_ban_channel) relation References channel : on delete cascade , on update cascade
5. Foreign key (publisherusername) in (publisher_manage_channel) relation references publisher: on delete cascade , on update cascade
6. Foreign key(channel_id) in (publisher_manage_channel) relation references channel : on delete cascade , on update cascade
7. Foreign key(publisherusername) in (content) relation references publisher : on delete cascade , on update cascade
8. Foreign key (channel_iD) in (content) relation references Channel : on delete cascade , on update cascade
9. Foreign key (studentusername) in (get_notification) relation references student : on delete cascade , on update cascade
10. Foreign key (Notification_id) in (get_notification) relation references notification: on delete cascade , on update cascade
11. Foreign key(studentUsername) in (solve_problemset) relation references student : on delete cascade , on update cascade
12. Foreign key(content_id) in (solve_problemset) relation references Problemset: on delete cascade , on update cascade
13. Foreign key(studentUsername) in (solve_hw) relation references student : on delete cascade , on update cascade
14. Foreign key(content_id) in (solve_hw) relation references homework: on delete cascade , on update cascade
15. Foreign key(studentUsername) in (solve_quiz) relation references student : on delete cascade , on update cascade
16. Foreign key(content_id) in (solve_quiz) relation references quiz: on delete cascade , on update cascade
17. Foreign key (studentUsername) in (vote) relation references student : on delete cascade, on update cascade
18. Foreign key (poll_id) in (vote) relation references poll: on delete cascade , on update cascade

19. Foreign key (studentusername) in (read) relation references student: on delete cascade , on update cascade
20. Foreign key(article_id) in (read) relation references article : on delete cascade , on update cascade
21. Foreign key(studentusername) in (join_channel) relation references student : on delete cascade , on update cascade
22. Foreign key(channel_id) in (join_channel) relation references channel: on delete cascade , on update cascade
23. Foreign key (channel_id) in (discussion) relation references channel : on delete cascade , on update cascade
24. Foreign key (related_content_id) in (notification) relation references content : on delete cascade , on update cascade
25. Foreign key (discussion_id) in (discussion_about_article) relation references discussion : on delete cascade , on update cascade
26. Foreign key (article_id) in (discussion_about_article) relation references article : on delete cascade , on update cascade
27. Foreign key (question_id) In (hw_question) relation references question : on delete cascade , on update cascade
28. Foreign key (hw_id) in (hw_question) relation references home work: on delete cascade , on update cascade
29. Foreign key (question_id) In (quiz_question) relation references question : on delete cascade , on update cascade
30. Foreign key (quiz_id) in (quiz_question) relation references quiz: on delete cascade , on update cascade
31. Foreign key (question_id) In (ps_question) relation references question : on delete cascade , on update cascade
32. Foreign key (ps_id) in (ps_question) relation references problemset: on delete cascade , on update cascade
33. Foreign key (content_id) in home_work relation references content : on delete cascade, on update cascade
34. Foreign key (content_id) in quiz relation references content : on delete cascade, on update cascade
35. Foreign key (content_id) in problemset relation references content : on delete cascade, on update cascade
36. Foreign key (content_id) in article relation references content : on delete cascade, on update cascade
37. Foreign key (content_id) in poll relation references poll : on delete cascade ,on update cascade

38.   Foreign key (StudentUsername) in Student relation references User : on delete cascade , on update cascade

39.   Foreign key (publisherUsername) in Pusblisher relation references User : on delete Cascade , on Update cascade.