

Entrega II

Definição do esquema relacional

Relation reference	Relation Compact Notation
R01	users(<u>id</u> , name NN , email NN UK , wallet DF 0.0, country)
R02	studio(<u>id</u> , name NN UK , description)
R03	game(<u>id</u> , title NN , price NN , rating DF 50, publisher -> Studio, developer -> Studio)
R04	achievement(<u>id</u> , name NN , description NN , game -> Game)
R05	users_achievement(<u>users</u> -> users, <u>achievement</u> -> achievement)
R06	review(<u>users</u> -> users, <u>game</u> -> game, body, rating NN)
R07	ownership(<u>users</u> -> users, <u>game</u> -> game)
R08	wishlist(<u>users</u> -> users, <u>game</u> -> game)
R09	follow_studio(<u>users</u> -> users, <u>studio</u> -> studio)
R10	friendship(<u>user1</u> -> users, <u>user2</u> -> users CK user2 != user1)
R11	communities(<u>id</u> , name NN)
R12	post(<u>id</u> , title NN , body NN , rating DF 50, author -> users, community -> communities)
R13	comment(<u>id</u> , body NN , rating DF 50, author -> users, post -> post)
R14	privileges(<u>users</u> -> users, <u>community</u> -> communities, is_administrator DF false)

where **UK** means **UNIQUE KEY**, **NN** means **NOT NULL**, **DF** means **DEFAULT** and **CK** means **CHECK**.

Análise de Dependências Funcionais e Formas Normais

Table R01	users
Keys	{id, email}
Functional Dependencies:	
FD0101	{id} -> {name, email, wallet, country}
FD0102	{email} -> {id, name, wallet, country}
Normal Form	BCNF

Table R02	studio
Keys	{id, name}
Functional Dependencies:	
FD0201	{id} -> {name, description}
FD0202	{name} -> {id, description}
Normal Form	BCNF

Table R03	game
Keys	{id}
Functional Dependencies:	
FD0301	{id} -> {title, price, rating, publisher, developer}
Normal Form	BCNF

Table R04	achievement
Keys	{id}
Functional Dependencies:	
FD0401	{id} -> {name, description, game}
Normal Form	BCNF

Table R05	users_achievement
Keys	{users, achievement}
Functional Dependencies:	
(None)	
Normal Form	BCNF

Table R06	review
Keys	{users, game}
Functional Dependencies:	
FD0601	{users, game} -> {body, rating}
Normal Form	BCNF

Table R07	ownership
Keys	{users, game}
Functional Dependencies:	
(None)	
Normal Form	BCNF

Table R08	wishlist
Keys	{users, game}
Functional Dependencies:	
(None)	
Normal Form	BCNF

Table R09	follow_studio
Keys	{users, studio}
Functional Dependencies:	
(None)	
Normal Form	BCNF

Table R10	friendship
Keys	{user1, user2}
Functional Dependencies:	
(None)	
Normal Form	BCNF

Table R11	communities
Keys	{id}
Functional Dependencies:	
FD1101	{id} -> {name}
Normal Form	BCNF

Table R12	post
Keys	{id}
Functional Dependencies:	
FD1201	{id} -> {title, body, rating, author, community}
Normal Form	BCNF

Table R13	comment
Keys	{id}
Functional Dependencies:	
FD1301	{id} -> {body, rating, author, post}
Normal Form	BCNF

Table R14	privileges
Keys	{users, community}
Functional Dependencies:	
FD1401	{users, community} -> {is_administrator}
Normal Form	BCNF