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Paw Bytes
Relational Diagram
6/17/20

Paw Bytes Normalization

Customer

Customer(<u>CID</u>, firstName*, lastName, email, phoneNumber, isMember*, street, city, state, zipCode)

Candidate Keys

CID & zipCode → street, city, & state

CID → firstName, lastName, email, phoneNumber, isMember

Customer(<u>CID</u>, firstName*, lastName*, email, phoneNumber, isMember*)

Customer_Address(<u>CID, zipCode,</u> street, city, state)

Product

Product(<u>PID</u>, productName*, productType*, establishedDate*, amount*)

Candidate Keys

PID & establishedDate → amount

PID → productName, productType

Product(<u>PID</u>, productName*, productType*)

Product_Amount(<u>PID, establishedDate</u>, amount)

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6/17/20

Employee

Employee(<u>EID</u>, firstName*, lastName*, email*, phoneNumber*, street*, city*, state*, zipCode*)

Candidate Keys

EID & zipCode → street, city, state

EID → firstName, lastName, email, phoneNumber

Employee(<u>EID,</u> firstName*, lastName*, email*, phoneNumber*)

Employee_Address(<u>EID, zipCode*</u>, street*, city*, state*)

Paw Pal

PawPal(<u>pawID</u>, name*, species*, tagName*, [lastDateGroomed], [totalHoursTrained])

Candidate Keys

pawID → everything else

no change…

Order

Order(<u>orderID</u>, orderDate*, [orderTotal]*, CID*, PID*, quantity*, [lineTotal]*)

CID references Customer.CID , PID references Product.PID

Candidate Keys

OID, CID, & PID → quantity, lineTotal

OID → orderDate, orderTotal

Order(<u>orderID</u>, orderDate*, [orderTotal]*)

Order_Invoice(<u>orderID,PID,CID,</u> quantity*, [lineTotal]*)

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Relational Diagram
6/17/20

Training Session

Training_Session(<u>sessionID</u>, sessionDate*, sessionDuration*)

CID references Customer.CID , productName references Product.name

Attend Session

Attend_Session(<u>pawID, sessionID</u>)

pawID references PawPal.pawID , sessionID references TrainingSession.sessionID

Conduct Session

ConductSession(<u>EID, sessionID</u>)

EID references employee.EID , sessionID references TrainingSession.sessionID

1NF – Address multivalued attributes and composite attributes

There are no MVAs or composite attributes

2NF – Remove partial dependencies

There are no partial dependencies

3NF – Remove transitive dependencies

There are no transitive dependencies

Tweet Treat

Tweet_Treat(tweetID, tweetOwner, text, dateSaved)

1NF – Address multivalued attributes and composite attributes

There are no MVAs or composite attributes

2NF – Remove partial dependencies

There are no partial dependencies

3NF – Remove transitive dependencies

There are no transitive dependencies

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Relational Diagram
6/17/20

Tweet Treat Ownership

Tweet_Treat_Ownership(tweetID, pawID)

1NF – Address multivalued attributes and composite attributes

There are no MVAs or composite attributes

2NF – Remove partial dependencies

There are no partial dependencies

3NF – Remove transitive dependencies

There are no transitive dependencies