CSCE608 Project Functional Dependencies

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Animal Basic Information(
    <u>Animal ID</u>:integer,
    Date of Birth:date,
    Date of Impulse:date)
Animal ID → Date of Birth, Date of Impulse

Animal Weight(
    <u>Animal ID</u>:integer,
    <u>Date</u>:date,
    Weight:float)
Animal ID, Date → Weight

Go/No Go Test(
    <u>Animal ID</u>:integer,
    <u>Date</u>:date,
    Correctness:float)
Animal ID, Date → Correctness

Balance Beam Test(Falls)(
    <u>Animal ID</u>:integer,
    <u>Date</u>:date,
    <u>Trial Number</u>:integer,
    Duration:float,
    Total Falls:integer,
    Front:integer,
    Back:integer,
    Full Body:integer)
Animal ID, Date, Trial Number → Duration, Front, Back, Full Body
Front, Back, Full Body → Total Falls

Balance Beam Test(Slips)(
    Animal ID:integer,
    Date:date,
    Trial Number:integer,
    Duration:float,
    Front Left:integer,
    Front Right:integer,
    Back Left:integer,
    Back Right:integer,
    Total Slips:integer)
Animal ID, Date, Trial Number → Duration, Front Left, Front Right, Back Left, Back Right
Front Left, Front Right, Back Left, Back Right → Total Slips

Go/No Go Selection(
    Animal ID:integer,
    Mean:float,
    Mean Rank:integer,
    Standard Deviation:float,
    Standard Deviation Rank:integer)
Animal ID → Mean, Standard Deviation
Mean → Mean Rank, Standard Deviation → Standard Deviation Rank

Selection Total Rank(
    Animal ID:integer,
    Rank Value:integer,
    Total Rank:integer)
Animal ID → Rank Value, Rank Value → Total Rank

T-maze Selection(without correction)(
    Animal ID:integer,
    Mean:float,
    Mean Rank:integer,
    Standard Deviation:float,
    Standard Deviation Rank:integer)
Animal ID → Mean, Standard Deviation
Mean → Mean Rank, Standard Deviation → Standard Deviation Rank

T-maze Selection(with correction)(
    <u>Animal ID</u>:integer,
    Mean:float,
    Mean Rank:integer,
    Standard Deviation:float,
    Standard Deviation Rank:integer)
Animal ID $\rightarrow$ Mean, Standard Deviation
Mean $\rightarrow$ Mean Rank, Standard Deviation $\rightarrow$ Standard Deviation Rank

T-maze Test(
    <u>Animal ID</u>:integer,
    <u>Date</u>:date,
    <u>AM/PM</u>:char(2),
    Percentage of Correctness:float,
    Percentage of Alternation:float)
Animal ID, Date, AM/PM $\rightarrow$ Percentage of Correctness, Percentage of Alternation

Spacial Holeboard Test(
    <u>Animal ID</u>:integer,
    <u>Date</u>:date,
    <u>Trial Number</u>:integer,
    Duration:float,
    Working Memory:float,
    Reference Memory:float,
    Revisits to Baited:integer,
    Visits to Baited:integer,
    Unbaited Visits:integer,
    Total Visits:integer)
Animal ID, Date, Trial Number $\rightarrow$ Duration, Revisits to Baited, Visits to Baited, Unbaited Visits
Revisits to Baited, Visits to Baited, Unbaited Visits $\rightarrow$ Total Visits
Revisits to Baited, Visits to Baited $\rightarrow$ Working Memory
Visits to Baited, Revisits to Baited, Total Visits $\rightarrow$ Reference Memory

Spacial Holeboard Selection(
    <u>Animal ID</u>:integer,

Working Memory:float,
Working Memory Rank:integer,
Reference Memory:float,
Reference Memory Rank:integer)
Animal ID → Working Memory, Reference Memory
Working Memory → Working Memory Rank
Reference Memory → Reference Memory Rank