

Relational Algebra Cor Celculus) Project - selects attributes Margar (R). out put la Japlicutes I rame (Person) = 3 Alice, Bob, Carol3 Select - selects elements/10 ws 0 a,= v, (R) Thame = 1861 (Person) = {(Z, Bob, 1900-1-1), (4, Bob, 1967-10-B)} Carresian Product - compines two relations RIXK2 Person X Per Pason & Ppot-nanc/nave (Pet) p-id have bistrodak H-il species - rename a to a' Kename Paya (R) Natural Join R, MR2 = R, x Rz, with matching attributes 1+ R1, R2 base common d, az, ., a,

 $R_1 MR_L = \pi_{(n',a,',a,a')} \left(\overline{a}_{a=a'_1,a_2=a'_2,\cdots,a_n=a'_n} \right) \left(R_1 \times P_{a'_1 a_1,a'_2 a'_n a'_n} \right) \left(R_2 \times P_{a'_1 a_2,a'_2 a'_n a'_n} \right) \left(R_3 \times P_{a'_1 a_2,a'_2 a'_n a'_n} \right) \left(R_4 \times P_{a'_1 a_2,a'_2 a'_n a'_n} \right) \left(R_5 \times P_{a'_1 a_2,a'_2 a'_n a'_n} \right) \left(R_6 \times P_{a'_1 a_2,a'_2 a'_n a'_n} \right) \left(R_6 \times P_{a'_1 a_2,a'_2 a'_n} \right) \left(R_6 \times P_{a'_1 a_2$

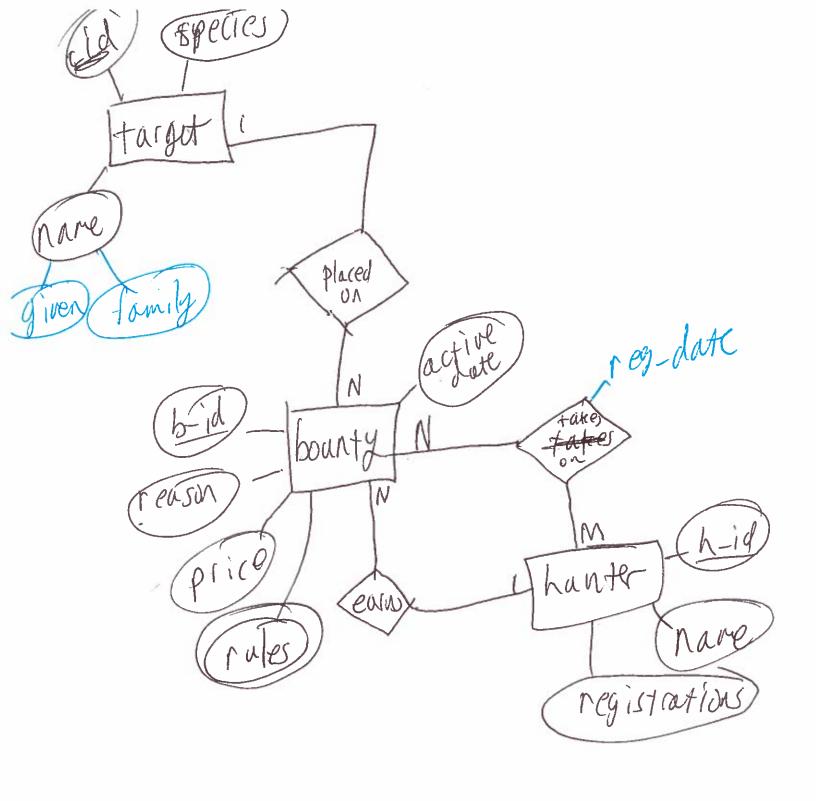
pot-name species owner (Binty Rathir 1 Dog Cast Mname, per name (Pord= Duner (Person & Pret-name (Pet))) Sparty POSSON X PPET-NAMINAM (Pet) Binkz Kirby Wt-id pet-nam Binky Sparty 8 Madre. 6, rthdak 1970-171 Bas (900-1-1 A [ice 1970-1-1 A [ice 1978-1-1 APRE Nam A lice nam

RARME, petraure (Person M Ppetraughane, P-idhuner (Pet))

Kir by

Carol

Carol



Target

To-id species name

S2871 Android Cindi

Magnewster

7324 Harren Han Solo

Bound 9

Brice active-date comer

unn \$1M Jan 7, S3P2 F

Bounty b-id terryst-id reason price tellin lovew/hum \$1m 1 52871 bounty - rule bid rule no no phasers hanter rcgistration hild name 273628 HK-47 hunter-active-bounts (1911 relation) h-id b-id reg-date 73 1 Jan 10, 5382

relation Ent Ity attribute attibute -> relation W/ FK refferring MV attr -> entity [i], Ii Mielationship foreign key on M side (1.m) either for 1.1 M: N relationship join relation rel u/, attributes _> gow/ AK, or make join relations