JESSIE GEORGE HOMEWORK 2

") . bij 1. .) . 125 11". Note: I realized I can improve my Ex diagram so I will draw rainew Ekidjagram and give the relational schemas. is of type Airplane ExpertIn (name max you Employee T. C ISA Edispirat partial? Technician) Traffic Controller 1 2:50 recent_examidate (name) (address) Relational Schema; with into palines. Airplane (reg num: string; trimacy Key (reg-num)) Model (mod namistring, capacity, int, weight: real FAA-Test (faa-test-num: string, name: string, max_score: int, Primary Key (faa test_num) Technician (salary: real, phone: string, hame: string address: String, SSN: string, Primary Key (SSN) foreign Key (SSN) references. Employée) Employee (SSN: String, UnionID: String, Primary Key (SSN))

502 Tu ... - 10 vol · Traffic-Controller (exam_date: datetime, SSN: string; has Expertise (SSN) atring spartners; string, modernim: string Primary Key (\$5N, mod=num) partners!) foreign Key (SSN) references Employee Horaign Key (Mod_nilm) references Model) to drosof is Of Type (reg_num: string, mod_num: string, Primary Key (reg-num), foreign Key (reg-num) references Airplane Foreign Key (mod-num) références Model testDetails (reg-num: string, faa-test-num: string sen: string, date: datetime, manhours: real, score: int. Primary Key (reg-num, fag-test-num, ssn, date), foreign Key (reg num) réferences Airline, foreign Key (faa-test_num) references FAA_Test foreign Key (SSN) references Employee) Expert In (mod_num: String, &sn: string; :) * partners: array of strings: Primary Key (mod-num, son partners), foreign key (modinium) references Model foreign Key (SSN) Freferences Employee () a miller of the mile ... in the fait in a state of the con-

2. Musician (sen: string, name, string, address; string phone: string, primary keir (SON) Instrument (barcode) string, name: string, musical key: string, primary key (barcode) Album Latitle: string, copyright-date; datetime, format: string, albumID: String, primary key (albumID) · Song Cstitle isting, author: string; primary key (stitle, author)) Plays (SSN: string, barcode: string, primary key (ssn, barcode) Foreignkey (SSN) references Musician Poreign bey (bascools) reparishers Toistailinent Contours (album ED: string, stritte's string; buthor : string Primary Key (stille, author); Forcign Key (albumID) seferences Album, Foreign Key (shittle, author), references pinacul reditions & Parforms (son is king is title istring, mauthors thing Primary Kay (SSN), shiffer, divillow); Foreign, Key (SSN) references Musician, Foreign Ray (Stitle, author)) reférences, Sorg): 1 - 12 min : 1 - 12 min : 1 - 12 min : 1 Produces (altrinito. = string, ssn : string, prinary bey, (albunID); foreign Key: (albunID) references. Album, Foreign key (ash) references (Musician) more (destination) Are there constraints you can't capture in schema? Yes. The coadinality constrainte (one-to-many etc.) cannot be represented in relational schema. The participation (stotal partial) can't be represented in relational schools

(whiplose Type) Price Artists = diver A Customers . (chame (Dollars Spent) Relational schema: Artiste (name: string birthplake string age int, style string : Primary Key (name)) ... Artwork (title string, year into type shing, price real primary key (title)) Group (graine: strong, primary key (grame) · Customers chame string; addressing, Pollars Spent: real (Primary Ley (chance)). makes (name: string, title istying, primary key (title) Foreign Kay (name) neferences Artists. · Foreign key (title) references Artwork) Likes A (name: string, chance string, Primary key (mustomers), foreign key (name) references Artick, Foreign Key Corame references Customers · · · o. Likes G. C. chame; string, granie string. Primary Keir (chama); Foreigh Key (chame) references Justomers, Foreign Key, Coname) references, Group.