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Faculty/School: SCIENCE AND TECHNOLOGY

Course: BACHELORS OF SCIENCE IN COMPUTER SCIENCE

(BSCS1)

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COURSE UNIT: Database Applications and Development

Due: Friday, 3 June 2022

Assignment 1

Problem 1

Solution 1

First, we shall design the entities and relationships.

Employees work in departments

for each department is managed by an employee

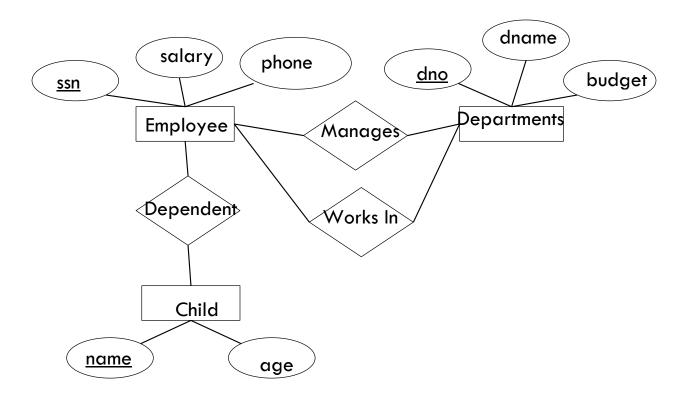
a child must be identified uniquely by name when the parent (who is an employee;

assume that only one

parent works for the company) is known.

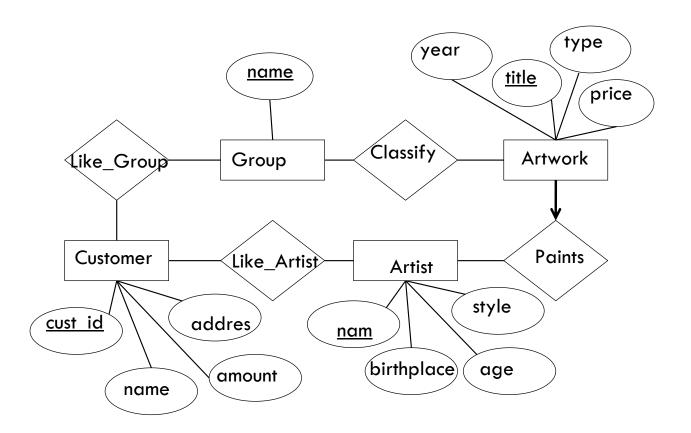
We are not interested in information about a child once the parent leaves the company.

Solution to problem1



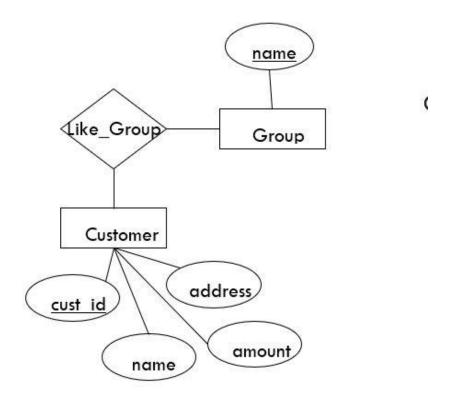
Problem 2

ER Diagram



Solution to problem 2

ER Diagram database for group:



CREATE TABLE Like Group (
name CHAR(20), cust name CHAR(20),

PRIMARY KEY (name, cust_name),

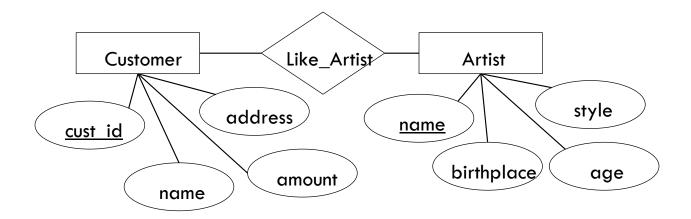
FOREIGN KEY (name)

REFERENCES Group, FOREIGN KEY (cust name)

REFERENCES Customer)

Solution

ER Diagram database for Artist:



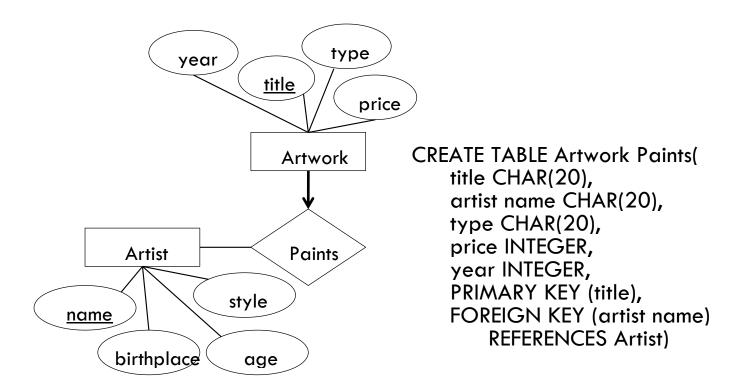
CREATE TABLE Like
Artist (name CHAR
(20), cust name
CHAR(20),

PRIMARY KEY (name, cust name),

FOREIGN KEY (name) REFERENCES Artist, FOREIGN KEY (cust name) REFERENCES Customer)

ER Diagram database for Artwork paints:

Solution



ER diagram database for the classify

