

①  
ALIRAZA ; ID## = 14989; mam, Rima.

## Data base System

Q 18

Ans 1: Candidate keys:

in the given table ID, Name, and cell are candidate keys.

Ans 2:

Data Redundancy:

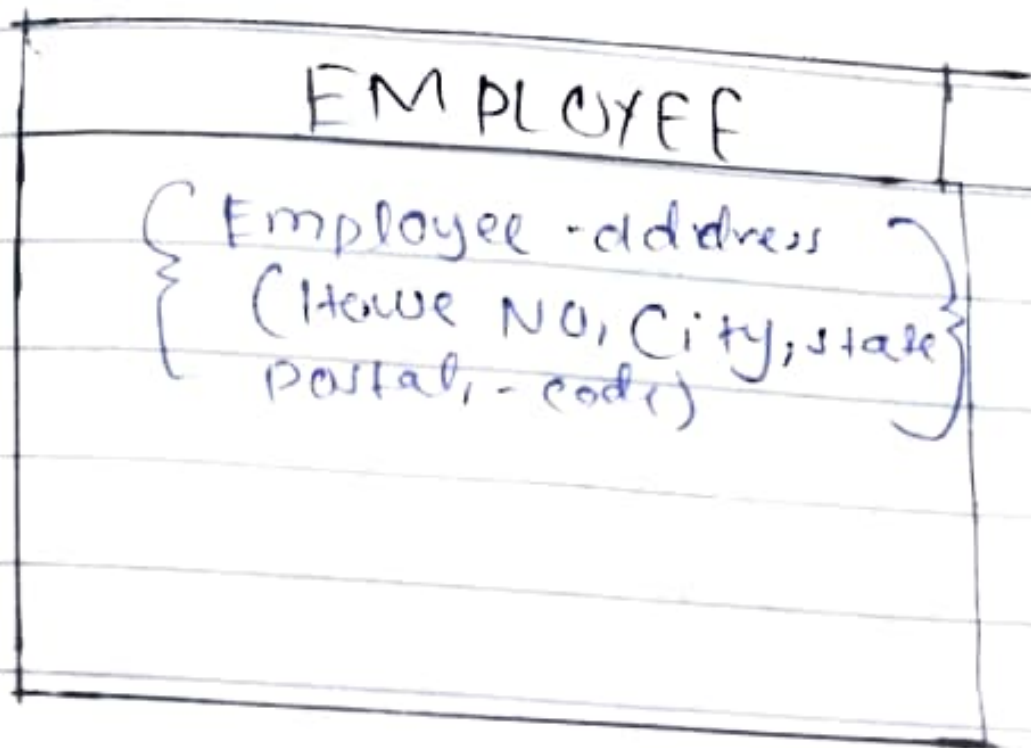
Data redundancy is the repetition or superfluous refer of data.

★ Data Integrity:

~~Ans 3~~ Data integrity refers to the accuracy and consistency of data stored in a database, data warehouse, data mart or other construct.

Ans 3:-

Multivalued Composite Attribute  
in Conceptual Models



Multivalued Composite Attribute.

Ans 4: Reduced Maintenance & Maintenance in database have little or no effect on the database application, they reducing the maintenance costs.

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ID# 14989, ALI2939

Ans 58

ER Diagram:-

Mandatory one



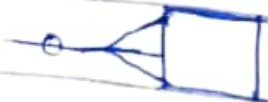
Mandatory many



Optional one



Optional Many



(4)

ED # 14989 , ALIR939

Qn 68

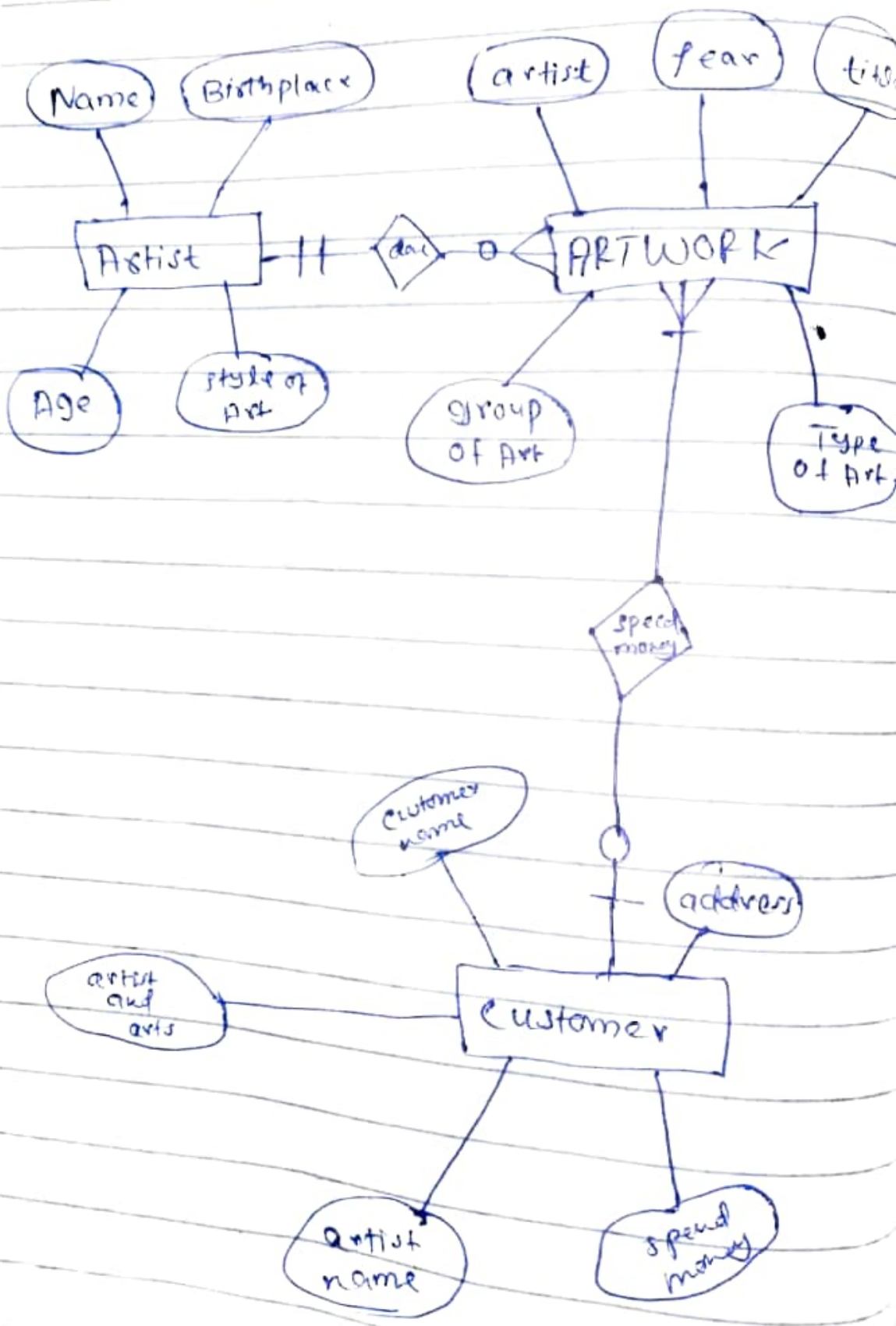
Need of Backup:-

Because for a centralized shared database to be accurate and available all times. Comprehensive procedure is required to be developed and used for providing backup copies of data and for restoring a database when damage occurs.

(5)  
ID#14989, ALIR39

Q 2:-

Ans:- ERD Diagram



(A)

ID#14989, ALIR 729

course	
Course Name	Course number
Database - 101D	
English - A 33B	
Calculus - 2P3B	

has

class				
Course name	Section number	number	registered	course date/time
English - C	101D	500	2nd Feb	12:00pm
Database - A	101D	500	14th May	8:00am
Calculus - D	998	1000	14th July	9:00pm

Takes

Student	
Student ID	Student name - Address
190914	Asad - Kohat
15066	Hameed - Dir
15031	Sameed - Swabi

files

Seat	
Seat no	Seat position
35	Centre
20	Right
06	Left