

salam fellows,

today my most of the paper came from last 5 6 lectures

aik question me two tables given thay n third table me dono tables ko join kia va tha and uski joining type btani thi k konsi hai? 5marks

Q: rules of mapping. 3marks

Q :can relational data model use for external , conceptual , logical view? yes or no give logical reason. 2marks

define subtype discriminator?

yahi kuj yaad raha hai.. or mcqs to sab me say hi aye thy...

there are total 26 question 20 are MCQS

(5 marks)

Employee

Emp-ID Emp-Name City

1 ABC Lahore

2 DEF Islamabad

3 GHI Lahore

4 JKL Karachi

Dept-Head

Head-ID Dept-Name

1 HR Dept

3 Accounts Dept

Employee (Join) Dept-Head

The given algebra expression has following output / resultant table.

Resultant Table

Emp-ID Emp-Name City Dept-Name

1 ABC Lahore HR Dept

3 GHI Lahore Accounts Dept

In your point of view, the above scenario is the result of which join type? Justify your answer with reason.

(3 marks)

make FD in Employe_desig and EMP_ID

(2 marks)

why relation model is better ?

(5 marks)

1 - Sigma

A - Procedural Query Language

2 - Table

- Select Operator

3 - Relational Algebra

C - Project Operator

4 - \cap

D - Relational Data Model

5 - Intersection Operator

E- Binary Operation

Suppose we have two relations A and B, where:

$A \Rightarrow R.No$

$B \Rightarrow GPA$

And

$A = \{01, 02\}$

$B = \{3.5, 3.7\}$

Answer the following questions.

1. Find $A \times B$

Answer 1:-

$$A \times B = \{01,3.5\} \{01,3.7\} \{02,3.5\} \{02,3.7\}$$

Answer 2:-

$$B \times A \{3.5,01\} \{3.5,02\} \{3.7,01\} \{3.7,01\}$$

Answer 3 :-

No in cartesian product $A \times B$ not equal to $B \times A$

$$A \times B = \{01,3.5\} \{01,3.7\} \{02,3.5\} \{02,3.7\}$$

$$B \times A \{3.5,01\} \{3.5,02\} \{3.7,01\} \{3.7,01\}$$

2. Find $B \times A$

3. Can $A \times B = B \times A$

and thanks to Ctrl Z property of MS word to share my Paper with you :p

2Q---2 marks

2Q---3marks

and 2Q---5marks

20 mcqs and 6 subjective

1. Normalization ky question ay ty subjective ma; tables diy ty aur batana tha kis normal form ma han aur split karna tha next form main..
2. Aik sutiatiion di thi us ma ER diagram banani thi
3. domain attribute ka aik 2 marks ka question tha
4. 2 names batany ty anomalies ky

st 2 or 3 mcqs moaaz file se thy, subjective ka koi b question match nae kr rha tha kisi b past ppr se...

1. 1 question was related to constraints of foreign nd primary key
2. ek qu mapping se related tha
3. ek scenario given tha jis k mutabik btana tha k is mai complete disjoint,partial ya overlap rule mai se kon sa use hua ha aur phr explanation deni the.
4. ek scenario normalization se related tha jis mai btana tha k kon c normal form use hoe ha nd explain krna tha k how?
5. ek mathematical relation se tha
6. last wala na mjhy smjh aya na kia aur na e yad ha...

1.what is supertype discrimination? 2marks

2. make a many to many relationship of an employee and project department

employee : emp-id,emp-name,emp-phno

project:pr-id, prdura, pr 5marks

3. there was a context diagram given had to write attributes for that dfd. 3marks

4. columns thay 5marks

- | | |
|-------------|-----------------------|
| 1. number | A. reg id |
| 2. voucher2 | B. pictures |
| 3.char | c. name |
| 4.blog | D. address |
| 5. raw | E.college trip videos |
| 6..... | F..... |

had to write in this form 3->C

Total Questions = 26 Total Marks = 40

Total MCQs of 1 Mark = 20

Short Subjective Question of 2 Marks = 2

Subjective Question of 3 Marks = 2

Subjective Questions of 5 Marks = 2

1- write the any four entity of Examination System of the University

2- Match the table of Sigma, Select Operator, Project Operator, Relational Algebra, Primary Key, Foreign Key ...

3- write the functional dependencies of the the St-Id, Supervisor-Id, Specialization-Id

4- Match 2 columns and ri8 in 3rd column (which includes entity type, value set, Primary Key, or yad nae hy :(

Today Paper

Total Questions = 26

Total Marks = 40

Total MCQs of 1 Mark = 20

Short Subjective Question of 2 Marks = 2

Subjective Question of 3 Marks = 2

Subjective Questions of 5 Marks = 2

1- What is extension and intension

2- What is query evaluation engine

3- How many resultant tables we have, while implementing one-to-one relationship in designing database?

4- What is degree of a relation?

5- Difference between null value and zero value.

6- How does Tuple-oriented relational calculus differ from domain-oriented relational calculus?

7 to 8 MCQS from Moaz bhai files

Friend function define krna tha code k sath

aik main class ka code diya howa tha aur humain oes k andar static variable define krna tha

Aik class ki diagram the jis ko textual define krna hai... bank ka sanirio tha

aik main -operator overload krwana tha aur aik main & operator

aik aur b the oes main b operator ka scan tha kuch wo yaad nai ae raha

20 MCQ's 6 questions subjective 2 = 2marks , 2 = 3 marks . 2 = 5 marks

2 or 3 mcq's were from past papers

Functional and Non Functional requirement

Π ΠΠ Π Π

StudentName, address

(σcity

rank='Asst Prof'

(Student))

write the resultant table (5 marks)

and Student R.No, GPA

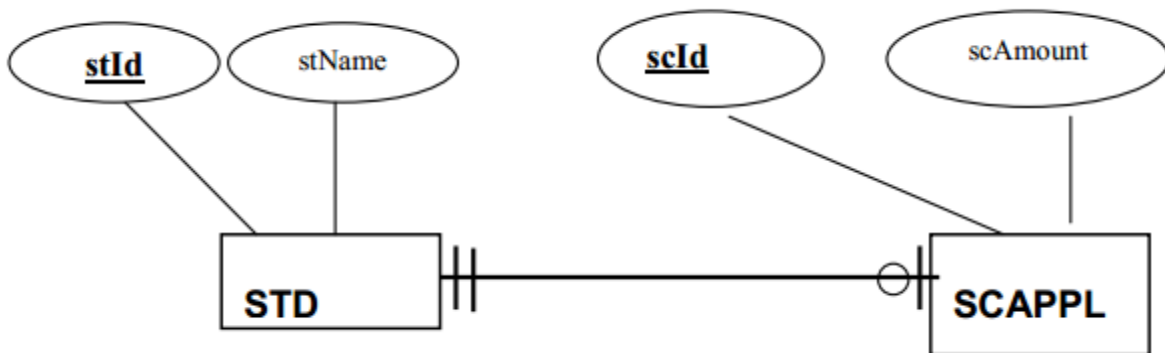
A=> (02 , 05)

B=> (3.5,3.7)

solve A X B And B X A And show that A X B = B X A (5 Marks)

what is completeness? (2 marks)

change the diagraph into relations. (3 marks)



Baki Yad

nai

1. Define Cartesian Product 2
2. Project Operator statement was given, which is correct and justify. 2
- 3.

ID	Field1	Field2	Field3	
1	I	II	III	3
2	IV	V	IIV	
3	.	.	.	
4	.	.	.	
5	.	.	.	
6	.	.	.	

Find Cardinality and Degree

4. Two tables of Customer and Product were given, then semi-join to find? 3
 5. Cross Reference Matrix to draw from 4 reports and their attributes? 5
 - 6.
- | | | |
|---------------------------|-------------------------------|---|
| 1 - Sigma | A - Procedural Query Language | 5 |
| 2 - Table | B - Select Operator | |
| 3 - Relational Algebra | C - Project Operator | |
| 4 - \cap | D - Relational Data Model | |
| 5 - Intersection Operator | E - Binary Operation | |

Paper was overall tough and many new mcqs.

Mcqs were totally new and last 2 question of marks 5 were different.

- Q. Difference between Select and Project unary operator?
- Q. Describe the strength of RDM?
- Q. Define degree?
- Q. Write the set - difference of 2 relation ?table were given?

today's paper:

total 26 questions

4 short and 2 long 5 marks questions

A table was given and ask to find normalization form?
 A university scenrio was given and to find entities just entities?
 Data was given and ask to find x union y?
 MCQS was from past papers mostly and from handouts..
 KEEP SHARING!!!!

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 or yad nae hy :(

Today Paper

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custId	custName	custAddress
Cus101	ABC	LAHORE
Cus102	DEF	KARACHI
Cus103	GHI	LAHORE
Cus104	JKL	ISLAMABAD

PRID	PRNAME
PR101	SHAMPO
PR102	SOAP
PR103	PERFUME

$\sigma_{(custAddress='Lahore')}$ CUSTOMR X PRODUCT (5)

COURSE , MGT,COMPUTER SCIENCE, MATHEMATICS

DRAW THE SUPER TYPE AND SUBTYPE DIAGRAM FOR THESE ENTITIES (3)

Convert the following table into next normal form . if in 1st normal form then in 2nd if in 2nd normal form

Then in 3rd normal form.

Stdid	stdName	stdAdd	Hobby
1	Abc	Xyz	Movie Reading Football
2	Def	Abc	Basketball Body building Movie
3	Ghi	abc	Cricket
4	gkl	jkl	cricket

DRAW THE ENTITY RELATIONSHIP DIAGRAM FOR THE FOLLOWING CASES (5)

1. A sales invoice is written by one salesman and a salesman can write one or more invoices
2. A product is purchased from one vendor and vendor can sale one or many products
3. A sales invoice may contain one or many products and a product may appear as zero or many invoices

What is semi join (2)

1. Contractual
2. Hourly
3. Permanent

These are the categories of employees that are working on a project. Some employees are assigned the job of consultant on the project then which one constraint will apply.

Total completeness,

Partial completeness

Total overlapping

Partial overlapping -----(2)

my 27 dec ppr:

mcqs 60% from past pprz

1: definations of degree and cardinality

2: bhol gaya mjhe ye q

3: writ the nam of all the anomlies

4: cartisian prouct q given n creat any relatin b/t two

5: tabl given cnvert to normal form n write nam of normal form n which anomly is used in this tbl?

today's paper:

total 26 questions

4 short and 2 long 5 marks questions

A table was given and ask to find normalization form?

A university scenrio was given and to find entities just entities?

Data was given and ask to find x union y?

MCQS was from past papers mostly and from handouts..

KEEP SHARING!!!!

My today's Paper:

question about In statement. (5 marks)

write name of 2 primary locks, and differentiate between shared and update locks.(5 marks)

Benefit of cluster index. (2)

Disadvantage of using indexes. (2)

Match the columns about Raids... (5)

Two Statement was given we have to tell if it's correct or incorrect with justifying ans. (3)

What is Transaction? Write 2 properties of transaction. (2)

How to display all rows from the table. Write its syntax (3)

Syntax of View. (5)

i remember only these questions. :p

one-to-many relation topic

page 221 function in sqles ki categories bht important hen yad ker len

UPDATE AND GRANT COMMANDS related to which categories??????????

user interface

page 256 floppy disk and few more points are hereread it carefully

page 261 indexes sequential fileimp topic.....must read

page 320 wait-for- graph

ye tha mera papernow its up to u how u will cover these topics

May Allah Bless UTHANKS

Column A

1	Schema	A
2	relational algebra	B
3	greek letter π pie type tha	C
4	yahin tag nai ho raha	D
5		E

Column B

Binary Operation
select operation
project operation

Q2 what is difference between select operator and project operator

Q3 senario : in a govt hospital .. patient .. nurses .. pura paragraph tha ..aur sirf entities maloom karni thi

Q4 digram thi .and find out forign key

Q5 find out the cardinality and degree from the given table

4 column thy so degree =4

and 5 rows thi so cardinality = 5

Q6 yad nai raha

good luck

2Q---2 marks

2Q---3marks

and 2Q---5marks

20 mcqs and 6 subjective

MCQS past papers main say 10 ayi tye

subjective questions main

1 : froign Key identify keri thi figure given thi

2: characteristics of RDBM

3: diffrence b/t select and projection

4:AXB and BXA find kerna tha ----5

My paper of cs403

Mcqs were mostly from past papers.

1 Difference between null value and zero value (2)

2 In a Database Development relation are given specify in sequence (2)

i-Cross Reference matrix

ii-ERD

ii-DFD

3 Two table student1 and student 2 were given and asked to find student1- student2 (3)

4 about foreign key two table were given (3)

Relation1 and relation2

Relation1

Student ID	Name	Address	Degree ID
1	ABC	ABC123	Null
Default	XYZ	XYZ123	01
2	WXY	WXY123	05

Relation 2

Degree ID	Degree Title	Duration
01	BCS	4 years
02	MCS	2 years
03	MSCS	2 years

Where Degree Id is a referential/foreign key in relation 1. Specify the constraints applied on foreign key in the case given above from the list provided. Also justify

Referential, default, domain

5 (5)

	<u>Column A</u>	-	<u>Column B</u>
1	Sigma	A	Procedural query language
2	table	B	select operation
3	Relation algebraion	C	project operation
4		D	Relation data model
5	Intersection operator	E	Binary operation

Write the number of item of both columns like this 5 ->E

6 A ER diagram was given and also given which are reports and which are attributes And asked to make Cross Reference matrix. (5)

my today papers ...

students mostly mcqz past papers main sy aya thy .

20 mcqz

mostly mcqz keys and FN1 FN2 S related thy

2 quizz 2 marks

1) dffrance between relation & relationship?

primery key aur super key whers used?

2 quizz 3 marks

2 table thy un m ain sy value di hue then un main sy select krna tha tha ky superkey kis waly row lgy ge.

today's my paper

mcqs was most conceptual

1-SQL command to delete "STUDENT" table(Table structure and data both should be deleted) 2marks.

2-What are the types of cache normally used in desktop computers 2marks

3-Difference between Drop and truncate commands? 3marks

4-3rd normalization form main table convert krna tha 3marks

5-De-normalization sy related 3marks

6-transaction sy related 3marks

7-queries k question CREATE VIEW or ak question CREATE TABLE

8- If a table 1 and table 2 have same entity and the table 1 is 20 index and the table 2 14 index. Then the sequential file access use these operations (Insertion, updation or selection) on both table. Keep in mind the above scenario and mark the below given statements correct or incorrect. (Marks 5)

- I. Insertion in table 1 take greater time than table 2
- II. Updation in table 2 take greater time then table 1
- III. Retrieving a record from table 1 take lesser time than table 2.

2016 current question that i have collected

write a SQL cammand to create a database named vulms ?

name only four inferece rules

write any two important point which are necessary while designing input forms

How a view can be used for security purpose.

Properties of transaction. only name

Mechanism used to detect deadlock

Similarites between Materialized views and indexes

Two ways to create a new view

Difference between Dense and spars index

Disadvantages of using index

Overflow area is better than chaining in term of time and space. is it correct or not?

A table was given about raid and we have to map them. page no 258,259

three basic forms of optical disks

Define floppy disk

write two types of user interfaces.

UPDATE and GRANT command related to which category

Define the purpose of OR operator in SQL

three works of Alter command

two main tools of MS SQL

a Question about clustering files

difference between Horizontal and vertical partioning

two types of partitioning

define the purpose of Range control

BCNF stand for? page no 173

Normalization must be applied on all database. correct or not also justify.

CS403 - 12 dec 2012 11.00 am

1. Name types of completeness constraint. (2 marks)
 2. Match the table one side contain operation names (projection, theta join, equi join etc) and the other side contain symbols. (2 marks)
 3. Two tables are given, point out domain constraint, default and referential constraint and also explain. (3 marks)
 4. Example given suppose (not the exact example)
std (stId, stName, prName)
prg(prName, prCrds)
which normal form is used in this example. (3 marks)
 5. One scenario was given point out entities. (5 marks)
 6. Which inference rule is use explain (5 marks)
If $(X \rightarrow YZ)$ then $X \rightarrow Y$ and $X \rightarrow Z$.
-

Cs403
Date 12-12-2012
Midterm paper

Subjective

- 1) **Difference between relation and relationship? 2marks**
Answer:
Relation: is a structure of relational data model
Relationship: is purely construct of E-R data model.
- 2) **These two are software's. Write them in short form to be used in code. 2marks**
a) **System software**
b) **Application software**
Answer: according to me
syssoftware
appsoftware
- 3) **Using select() and project() what is outcome of this instruction 3 marks**
projectSign stu-name, stu-address (selectSign city, Lahore (relation 1))

Relation 1

Stu-id	Stu-name	Stu-address	City
1	XYZ	XYZ123	Lahore
2	ABC	ABC123	Lahore
3	JHI	JHI123	Karachi
4	KLM	KLM123	Islamabad
5	PQR	PQR123	Lahore

Answer: according to me is

Stu-name	Stu-address	City
XYZ	XYZ123	Lahore
ABC	ABC123	Lahore
PQR	PQR123	Lahore

- 4) **Can we use relational data model for logical/conceptual view. Yes or no? 3marks**
Answer: Yes we can use. Because it makes data and schema manipulation much easier.
- 5) **Which inference rule is used? Write name. 5marks**
a) **stu-Id -- > stu-name and stu-name-- > stu-class**
stu-id -- >stu-class
b) **stu-id -- > stu-name**
stu-id . stu-class -- > stu-name . stu-class
answer. a) **Transitivity** b) **Augmantation**
- 6) **Draw ER.diagram for the following entities. 5marks**
a) **Doctor**
b) **Patients**
c) **Admitted patients**
d) **Outdoor patients**
e) **Bed**
 - **Doctor are associated only with single type of patients**
 - **Patients are sub divided into two groups admitted and outdoor patients**
 - **Bed are associated only with admitted patients**

Instruction was given are same like above. Maybe a lil bit difference in them.

Theory questions:

1. ACID stands for?
 - 2: Difference between Horizontal and vertical partitioning
 - 3: Define index and its syntax.
 - 4: Write any two DML commands.
 - 5: Convert normal forms to another. (tables was given)
 - 6: Match the following:
transaction (internal schema)
3 level architecture (ACID)
Transaction Log (DBMS)
 - 7: Write SQL statement to insert ROW.
 - 8: Difference between DENSE index and Sparse index.
-

Not mine..... Another paper

Done with cs403-Database Management system (25-08-2016)

MCQs 20% past sy thy, subjective mein Queries related question ziyada thy.

1) Doctor(D_ID,D_PHONE) (5marks)

MEDICINE(M_CODE,DESCRIPTION)

I. Create unique index on table Doctor on D_ID

II. Create unique index on table MEDICINE on (M_CODE,DESCRIPTION)

2) What are the two primary modes of the locks?differentiate between shared lock and update lock. (5marks)

3) relation 1st normal form mein dia tha usko 2NF mein convert krna tha (5)

4) CREATE FURNITURE TABLE, CREATE VUDTUDENTS TABLE...rewrite given create command. (3 marks)

5) what are two types of horizontal portioning? (2 marks)

6) Write two important features which must be ensured in input forms.(2)

7) Write sql query to find those employees whose age is between 25 and 40 (2 mrks)

8) In which situation check points needs in database.(2)

My today paper cs403

mostly MCQ is not in OLD Solved papers only 20 to 30 % mcqs from moaz and other solved papers.... But Moaaz k subjective solved paper se approx 70% paper aaya ...

SQL , Views and Index .. and DeCompos ... aor khuch aise hi easy question the ..

Over All easy tha

My cs 403 paper today

Q:

Write the two types of Completeness Constrains

Q

Name the three different kinds of anomalies which can be eliminated through normalization

Q

Give 5 properties about table?

Q

1 question about equi join ?

Mcqs

Controlling redundancy in a database management system DOES NOT help to

- ▶ avoid duplication
- ▶ avoid unnecessary wastage of storage space
- ▶ avoid unauthorised access to data [Click here for detail](#)
- ▶ avoid inconsistency among data

Which of the following is not a benefit of normalization? ► Minimize insertion anomalies

- Minimize deletion anomalies
- Minimize updation anomalies
- Maximize redundancy

Consider two sets A and B. A contains 2 elements and B contains 3. How many elements do their cartesian product contains?

- 6
- 9
- 5
- 4

3 mcqs normalization se thy

Baki yad nahi

aj meray bahi ka paper tha jo us ny mujay batya wo mein aap ko correct bata rah hoon.

1)define Functional Dependency (2 marks)definition thi

2)difference between Procedural Languages and Non -Procedural Languages (2 marks) definition

mcq aik yeh tha

1)which of the following is not a record based data model (mcq)

2)CRM stand for (mcq)?

answer)Cross Reference Matrix

3)BLOCK HEADER IS PREFIXED TO EVERY ??(MCQ)

4)how many layer in DBMS(mcq) ?

5)A functional dependency is a type of relationship between(mcq)?

aswer) tha attributes

Subjective:-

1. we map a unary relationship into relationship and ERD has one to one cardinality then what would be the mapping producer? 2 Marks

2.What is the difference between equi join and natural join? 2marks

3.Relation aur dependencies were given. Had to convert to 2nd normal form. 3 marks

4.Find which normal form exits? Also convert it into higher normal form than it exists (e.g if it is in 2nd normal form then convert it into 3rd)

stId	stName	stAdr	prName	bkId
S1015	Tahira Ejaz	L Rukh Wah	MCS B06352	B08945 B19282
S103	ALi	Islamabad	BCS	B34333 B13123
S104	Usman	Rawalpindi	MA	B34335

5.ER diagram was given with crow foot notation. Change into arrow notation 5 mark

6.Map the ERD relation of the following entiites which have many to many cardinality.5 marks

EMPLOYEE(empId, empName, empSal)

PROJECT(prID, prDuration, prCost) On page no 142 but the difference was many to many cardinality.

CS403 paper

MCQs from past papers partially

Questions jo mgy aye thy,

Cross Matrix Refference

Five Name of Relational Algebra Operations

2 Tables,find XUY, and stisfy XUY = YUX

Mapping of two table of conceptual and relation Model

Uniry Projection table sy maloom krna ta
plz

today my paper mostly mcqs were from moaaz file,
jb k subjective b easy tha,

1

Q.26

CUSTOMER

Sr.No	CstID	cstName	cstAddress
1	Cst101	Sohail Ahmad	Lahore
2	Cst102	Shahbaz Mehmood	Wah Cantt
3	Cst103	Muhammad Irfan	Islamabad

PRODUCT

Sr.No	prID	prName	cstID
1	Pr201	Shampoo	Cst101
2	Pr202	Soap	
3	Pr203	Perfume	Cst103

Find output of the tables by applying sami Join (5 marks)

2:

Find which normal form exists? Also convert it into higher normal form than it exists (e.g if it is in 2nd normal form then convert it into 3rd) (5 marks) (Lec# 21)

Customer_id, Customer_name, Order_id, Order_name, Sales_detail

Dependencies

---Order_name depends upon order_id

---customer_name depends upon customer_id

---sales-detail depends upon customer_id and order_id

3;-functional dependncy?

4:ER- diagram bana tha?

5:many to many relationship describe krna tha ?

6:

A-->Student_name

B-->Course_name

A=(Imran,Waqas)

B=(BCS,MCS)

then find AxB and BxA

can AxB be equal to BxA?

Q # 1: write two rules of Disjointness Constraint? (2 marks)

Q # 2: Discribe Functional Dependency? (2 marks)

Q # 3: Major techniques of database modeling ? (3 marks)

Q # 4: Relation ye tha is ko convert karna tha 2NF mein?(3 marks)

Class(course_id, student_id, std Name, fac_id, room, grade)

Q # 5: Case A: If Student_id ->stdName then stdId,stAdr -> stName, stAdr

Case B: If stId -> stName and stName -> stAdr then stId ->stAdr

Which form of Inference Rules? (5 marks)

Q # 6: ER- diagram bana tha ye Qs ab yad ni kyat ha? (5 marks).

cs403 paper 2014

What is the difference between entity integrity constraint and referential integrity constraint?

How many resultant tables we will have, while implementing one-to-one relationship in designing tables?

Consider, we have a relation Customer with following attributes,

Customer (c-no, name, address, city, phone-no)

Case A –

If c-no --> city, phone-no

Then c-no --> city and c-no --> phone-no

Case B –

If c-no --> phone-no and phone-no, address --> city

Then c-no, address --> city

Which of the Inference Rules are applied on the Case A and CaseB?

ERD diagram

Patient ,

Docoter,

Bed

My today's paper of cs 403

MCQs were 10% from moaaz file, but over all paper was easy

subjective paper is

1. name 4 types of join
2. table was given and asked to convert it in 2nd Normal form
3. define the degree and cardinality of table(table was given)
4. values of 2 sets were given and asked to perform Cartesian product
5. in one to one relationship how many will be resultant tables?
6. Attributes of an entity were given and asked to mention their Data types

My mid-term exam (20 June,2015)

MCQs 10% from past exams.... but overall mcqs were easy

Total questions:26

Question 1. ek diagram thi uss mein kuch symbol errors thay unn ko correct krna tha like Data store, process aur entity k symbol errors 3 marks

Question 2. Table ko normal form mein lana tha (for eg. if it is in 2nd normal form bring it into 3rd normal form)

Student

Student-ID	Student-Name	Father-Name	City	Hobby
1	ABC	BC	Lahore	Cricket, Movies Football,
2	DEF	EF	Islamabad	Basketball

3	GHI	HI	Lahore	Movies, Body building, Badminton
4	JKL	KL	Karachi	Cricket

Question 3.

Consider, we have a relation Customer with following attributes,

Customer (c-no, name, address, city, phone-no)

Case A –

If c-no --> city, phone-no

Then c-no --> city and c-no --> phone-no

Case B –

If c-no --> phone-no and phone-no, address --> city

Then c-no, address --> city

Which of the Inference Rules are applied on the Case A and CaseB?

Question 4. ek aur question tha about terms used in ER model and Terms used in relational model

baqi yaad nahi..... best of lu

My Today's paper held on 9-06-2014 10:30 am

Subjective

1. we map a unary relationship into relationship and ERD has one to one cardinality then what would be the mapping producer? 2 Marks
2. What is the difference between equi join and natural join? 2marks
3. Relation aur dependencies were given. Had to convert to 2nd normal form. 3 marks
4. Find which normal form exists? Also convert it into higher normal form than it exists (e.g if it is in 2nd normal form then convert it into 3rd)

stId	stName	stAdr	prName	bkId
S1015	Tahira Ejaz	L Rukh Wah	MCS	B06352 B08945 B19282
S103	ALi	Islamabad	BCS	B34333 B13123
S104	Usman	Rawalpindi	MA	B34335

5. ER diagram was given with crow foot notation. Change into arrow notation 5 mark

6. Map the ERD relation of the following entitiés which have many to many cardinality. 5 marks

EMPLOYEE(empId, empName, empSal)

PROJECT(prID, prDuration, prCost) On page no 142 but the difference was many to many cardinality

9june 2014 8:30 AM

Analyse relation (EMPLOY(empId, empName etc...))... and tell weathr it is in 2ND

note: it is in 1NF -- 2 marks

Customer (c-no, name, address, city, phone-no)

Case A –

If c-no --> city, phone-no

Then c-no --> city and c-no --> phone-no

Case B –

If c-no --> phone-no and phone-no, address --> city

Then c-no, address --> city

Which of the Inference Rules are applied on the Case A and CaseB?

AxB find krna tha

A= no of week

B =shift

A {Monday,tuesday,Wednesday 'Thursday,Friday}

B={shift-1 shift-2 shift-shift-3}

Component ER data model ?
