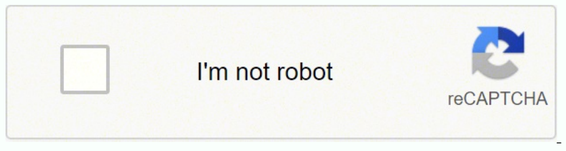

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Fundamentals of database systems questions and answers

College of Business Administration
AL KHARJ UNIVERSITY
MIS 231-Management Science

MCQ Bank

1. The field of management science
   a. concentrates on the use of quantitative methods to assist in decision making.
   b. approaches decision making rationally, with techniques based on the scientific method.
   c. is another name for decision science and for operations research.
   d. each of the above is true.
ANSWER: d

2. Identification and definition of a problem
   a. cannot be done until alternatives are proposed.
   b. is the first step of decision making.
   c. is the final step of problem solving.
   d. requires consideration of multiple criteria.
ANSWER: b

3. The quantitative analysis approach requires
   a. the manager's prior experience with a similar problem.
   b. a relatively uncomplicated problem.
   c. mathematical expressions for the relationships.
   d. each of the above is true.
ANSWER: c

4. A physical model that does not have the same physical appearance as the object being modeled is
   a. an analog model.
   b. an iconic model.
   c. a mathematical model.
   d. a qualitative model.
ANSWER: b

5. Management science and operations research both involve
   a. qualitative managerial skills.
   b. quantitative approaches to decision making.
   c. operational management skills.
   d. scientific research as opposed to applications.
ANSWER: b

6. George Dantzig is important in the history of management science because he developed
   a. the scientific management revolution.
   b. World War II operations research teams.
   c. the simplex method for linear programming.
   d. powerful digital computers.
ANSWER: c

7. A model that uses a system of symbols to represent a problem is called
   a. mathematical.
   b. iconic
   c. analog
   d. constrained.
ANSWER: a

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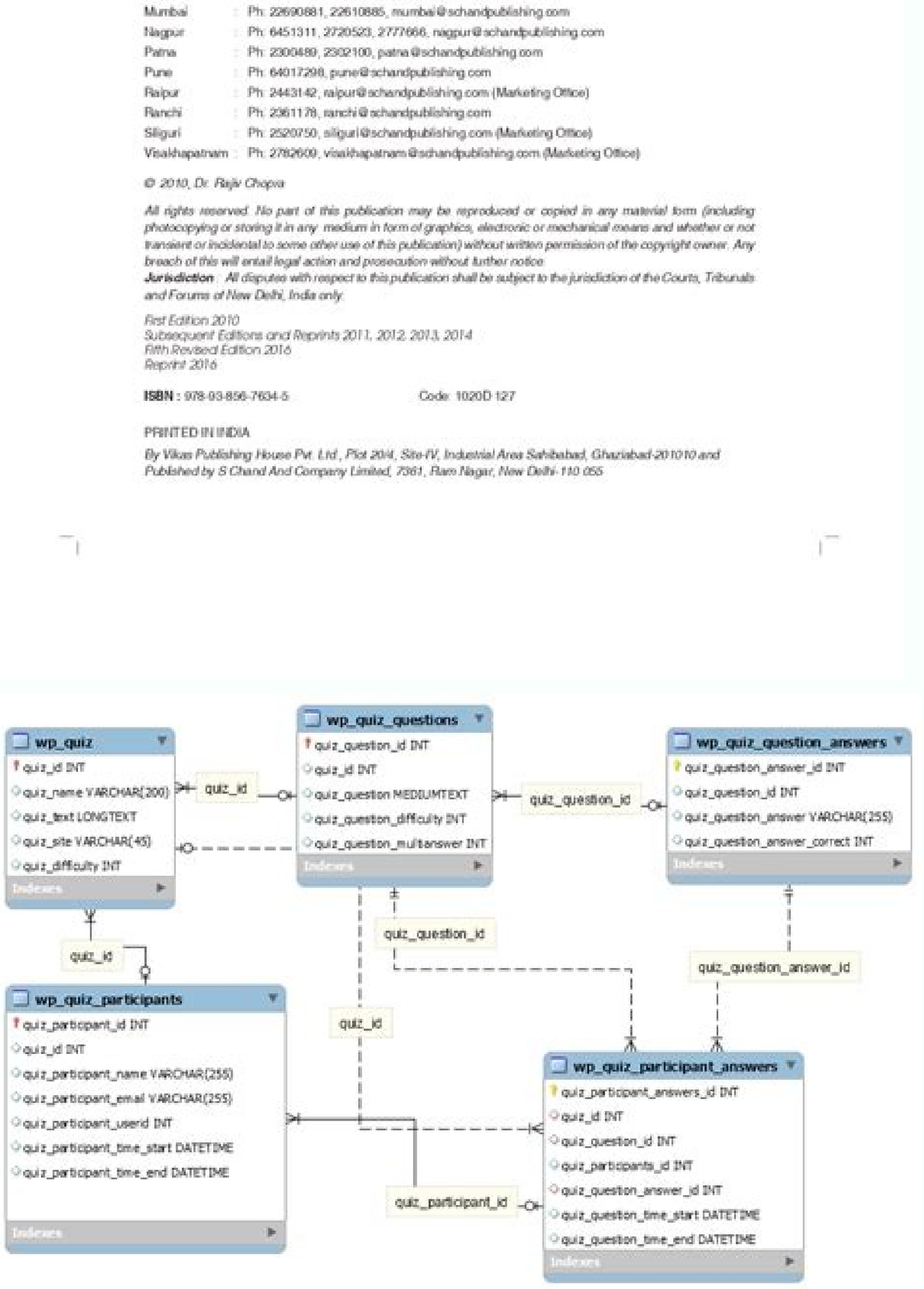
First Edition 2010
Subsequent Editions and Reprints 2011, 2012, 2013, 2014
Fifth Revised Edition 2016
Reprint 2016

ISBN : 978-93-856-7634-5 Code: 1020D127

PRINTED IN INDIA

By Vikas Publishing House Pvt. Ltd., Plot 20/4, Site-IV, Industrial Area Sahibabad, Ghaziabad-201010 and Published by S Chand And Company Limited, 7361, Ram Nagar, New Delhi-110 055



Question One: Fundamental of DBMS (6 marks)

a. Two transactions have their operations interleaved in the following way.

T1	T2
read-item(X);	
X:=X-N;	
	read-item(X);
	X:=X+M;
write-item(X);	
read-item(Y);	
	write-item(X);
Y:=Y+N;	
write-item(Y);	

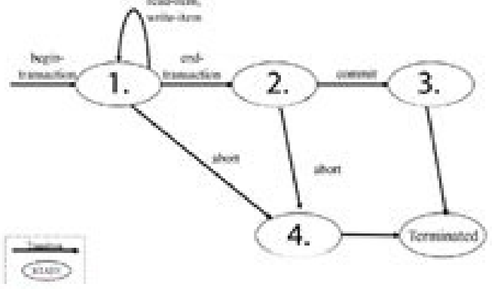
Is there any concurrency problem? If so, explain the problem? (2 marks)

There will be a lost update problem, this is because both transactions read item X, and then perform a calculation on this item. T1 then writes a new value back for X, as does T2. Thus, the original write completed by T1 is lost.

b. What is the system log? What is the purpose of the system log? (2 marks)

The system log keeps track of the state of a transaction, that is, it keeps track of prepare, commit/abort, complete, etc. messages. This enables a transaction to be recovered and re-done (or aborted) after a site failure.

c. Fill in the missing transaction states. (2 marks)



1. Active
2. Partially committed
3. Committed
4. Failed

Fundamentals of database systems review questions and answers.

The term âCANCEL' means: Correct response: cancel the previously transmitted authorization The term âBROADCAST' means that the information: Correct response: not addressed to a specific station The state of emergency is defined as a condition: Correct response: concerning the safety of an aircraft or other vehicle or a person on board but does not require immediate assistance The Squawk code for radio failure is: Correct answer: 7600 The signal used to identify an emergency call is: Correct answer: PAN PAN PAN PAN PAN PAN The response to the general call of the ATC is for the aircraft to: Answers correct: no response The response of an aircraft authorized to change level from FL100 to FL80 is: Correct answer: LEAVE FL100 DISCENDING TO FL80 The Call for a Distress condition radio is: Correct answer: MaydayMaggiodayMaggiodayThe procedure to follow in the event of a communication interruption after departure for an aircraft which receives radar carriers is as follows: Correct response: keep level clear for 3 minutes and then continue according to the current flight plan The procedure for an aircraft experiencing a communication interruption during an IFR flight under satisfactory visual conditions should: Correct response The procedure for an aircraft experiencing a RT failure during an IFR departure under IMC within Europe is: Correct answer: keep the level clear for 3 minutes and then continue according to the current flight plan The procedure for a radio failure during an IFR departure is: Correct answer: keep the last level clear for 3 minutes and then continue according to the current flight plan The priority of the message âREQUEST QDM It's: Correct answer: greater than for âTURN LEFT' The priority for an emergency call is: Correct answer: greater than for anything else but less than for the emergency The :¨Ã :¨Ã oerea nu id etrap ad osroccos id atamaihc al rep : rewsna tcerroC :eht si noitidnoc ssertsiD a fo tneve eht ni esu ot ycneuqerf ehT zHM 579.631 ot 0.811 : rewsna tcerroC :si snoitacinummoc rof desu seicneuqerf FHV fo egnar lluf ehT esu ni yawnur ,HNQ : rewsna tcerroC :sedulcni kcabdaer eb ot sah taht CTA morf egassem a ni noitamrofni ehT YVAEH 543 RIATSAF : rewsna tcerroC :eb dluohs sennot 631 fo WOTM htiw 543 RIATSAF tfarcria eht yb llac laitini ehTYVAEH 582 RIATSAF : rewsna tcerroC :eb dluow sennot 631 naht naht erom gnihgiew 582 RIATSAF ngisllac ,tfarcria na morf llac laitini ehT esu ni yltnerruc ycneuqerf eht : rewsna tcerroC :si noissimsnart dnilb a rof ycneuqerf laitini ehT YLETAIDEMMI POTS : rewsna tcerroC :esarhp eht sedulcni ffo ekat sti nodnoba ot tfarcria na ot CTA morf noitcurtsni ehT zHM 005.121 : rewsna tcerroC :si ycneuqerf ycnegreme lanoitanretni ehT tcerroc si taht : rewsna tcerroC :si 'TCERROC' fo gninaem ehT dnuorg eht no nehw noitavele eht sevig taht gnittes elacs-bus retemitla : rewsna tcerroC :eht si HNQ fo gninaem ehT ti htiw ylpmoc lliw dna egassem ruoy dnatsrednu I : rewsna tcerroC :si 'OCLIW' fo gninaem ehT erudecorp ro metsys a enimaxe : rewsna tcerroC :dluohs uoy taht snaem tfarcria na ot 'KCEHC' egassem ehT ytluciffid htiw tub elbadaeR : rewsna tcerroC :snaem '3 YTILIBADAER' egassem ehT zHk 33.8 : rewsna tcerroC :si slennahc FHV neewteb noitarapes ycneuqerf muminim ehT roop : rewsna tcerroC :si noitca gnikarb eht taht snaem CTA morf '02 TNEICIFFE-OC GNIKARB' esarhp ehT tnemnorivne ysub yrev a ni tfarcria tnereffid ot segassem neewteb noitarapes : rewsna tcerroC :etacidni ot desu 'KAERB KAERB' esarhp ehT TUO YADYAM GNITTIMSNART POTS : rewsna tcerroC :si noitautis ycnegreme na gnirud ecnelis oidar esopmi ot CTA yb desu esarhp ehT ROTINOM : rewsna tcerroC :si ycneuqerf a no tuo netsil ot uoy tcurtsni ot CTA yb desu esarhp ehT KAERB : rewsna tcerroC :si egassem a fo snoitrop etarapes ot desu esarhp ehT YADYAM YADYAM YADYAM : rewsna Frequency Currently in use The frequency to transmit first for an emergency call is: correct response: frequency in use 121.5 kHz is the correct response: correct response: international emergency frequency The planned approach time (eat) means the time when: correct Response: ATC expects an aircraft to be in use arrival, following a delay, will get to the waiting point to complete its approach to landing the definition of the instruction 'monitor' is: Correct answer: Listen to the frequency .. Correct answer: is your RNAV call sign ready? Correct answer: ever what's the last thing you say in the readback of a flight clearance? Correct answer: area navigation What do you say in a dangerous situation? The definition of distress condition is as follows: correct response: the aircraft is in imminent danger and requires immediate assistance, the definition of distress condition is as follows: correct response: the aircraft is in imminent danger and requires imminent danger and requires immediate assistance and requires immediate assistance Correct response: the aircraft is threatened by serious or imminent danger and requires immediate assistance, the correct readback of frequency 123.725 over 25 kHz spacing is: Correct response: 123.72 The content of an emergency message should include: Correct response: name of aircraft, nature of emergency, intentions, location, level, direction of the condition describing the state of an aircraft I have serious and / or imminent danger and requiring immediate assistance is: Correct response: Disassociate the condition defining the state of The urgency is: Correct response: there is concern for the safety of the aircraft or a person on board but does not require immediate assistance The condition defining he makes the of an aircraft in imminent danger is: correct answer: discomfort the suffix of the name of an area control center without radar is: correct answer: correct: The suffix of the name of a station that provides the delivery of the liquidation would: correct answer: delivery the suffix of the name for an airfield without radar would be: correct answer: approach the name of the station that would communicate with communication when receiving a radar service on Departure to be: correct answer: start the name for a radar station (general) would: correct answer: radar the calottans signed 1234 can be abbreviated to: correct answer: no abbreviation the call 'transmit blind due to the failure of the receiver "is Performed by: Correct answer: an aircraft The call 'Pan Pan Medical' It told us that: correct answer: flight covers protected medical transport pursuant to the 1949 Convention Geneva the call from an imminent dangerous aircraft is: correct answer: mayday Mayday Mayday the band for frequencies between 118.0 and 136.975 MHz are known as: Correct reply A: BAND VHF The ATC 'Disess Traffic Ended' message indicates that: Correct response: ATC Normal is resumed after an emergency The SSR abbreviation is for: correct answer: secondary surveillance radar the abbreviation will be for: correct answer: Search and save the abbreviation RVR Stand for: Correct response: Ranta Visual track The ABC abbreviation means: Correct response: Tool Conditions MET Conditions AIS abbreviation stands for: correct answer: Aeronautical information service setting a 7700 squawk Indicates that: correct answer: having an emergency SAR means: correct answer: search and saving the surface of the track for which the braking action is unreliable: correct response: wet snow and smoothing readability 2 means that your transmission It is: correct answer: readable now and therefore readability 1 means: correct answer: part not of the procedure for an aircraft IMC radio failure en route is: correct response: start the descent from the navigation aid to the holding point of the closed viewpoint closed rewsna tcerroC :uoy nehw rednopsnart eht no 0077 tes dluow uoY eciwt detaeper drow hcae tnaw : rewsna tcerroC :uoy nehw'ECIWT SDROW' esarhp eht esu dluow uoY snoitacinummoc etaitini ot REWOT rof tiaw dna 9.811 qerf ot egnahc : rewsna tcerroC :ot si 'REWOT ROF 9.811 NO YBDNATS' egassem eht fo tpiecer no noitca ruoY CMI / CMV : rewsna tcerroC :eb dluohs 'SNOITIDNOC THGILF TROPER' egassem eht ot ylper ruoYnoitacinummoC784 x 995224 x 415753 x 924292 x 443)xp(eziS debmE2 egaPredaer daol ot ereh kcilC 03 / srewsnA htiW esabataD - MOC_RFV_RfI - 1 3 egaPem ycnegrU na gniraeh nO ciffart ssertsid eht htiw erefretni ton : rewsna tcerroC :dluohs uoy 'YADYAM GNITTIMSNART POTS RADAR ELLIVNEHPETS SNOITATS LLA' egassem eht gniraeh nO esu ni ycneuqerf ehT : rewsna tcerroC .si noisrev tcerroc eht dna noissimsnart eht ni edam neeb sah rorre na : rewsna tcerroC :nehw desu si 'NOITCERROC' mret ehT tnes ton sa egassem tsal eht redisnoC : rewsna tcerroC :snaem 'DRAGERSID' mret ehT ecnaraelc suoiverp ruoy sedesrepus ecnaraelc wen siht dna ecnaraelc tsal ruoy ot edam neeb sah egnahc a : rewsna tcerroC :taht snaem 'DERAELCER' mret ehT rotanigiro htiw mrifnoc dna kcehc : rewsna tcerroC :snaem 'yfireV' mret ehT 0067 : rewsna tcerroC :si eruliaf oidar rof edoc rednopsnart ehT 0057 : rewsna tcerroC :si ecnerefretni lufwalnu rof edoc rednopsnart ehT zHM 579.631 ot 0.811 : rewsna tcerroC :seicneuqerf fo egnar eht srevoc snoitacinummoc lacituanorea rof dnab ycneuqerf FHV ehT MRIFNOC : rewsna tcerroC :si '.gniwollof eht deviecer yltcerroc I evaH' noisserpxe eht rof drow ehT naP naPnaP naPnaP naP : rewsna tcerroC :eb dluohs egassem YCNEGRU na gnideecorp sdrow ehT emiT dna noitisoP ,ngisllaC : rewsna tcerroC ?llac YADYAM tsrif ruoy timsnart uoy od ycneuqerf tahw nO srotacidni htap hcaorppa noisicerP : rewsna tcerroC :rof sdnats IPAP emit siht fo setunim 03 nihtiw dnal ot dna nalp thgilf tnerruc eht morf gnitluser ATE eht ro deviecer tsal TAE eht ot I am in a word emergency condition for the expression 'allowed not allowed' is: accurate answer: negative when the repetition of the instructions is correct, the phrase used is: exact response: correct when it is not possible to re-run the release of a path? Exact Answer: Mayday Mayday Mayday What can not be overlooked by a position report? report?

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