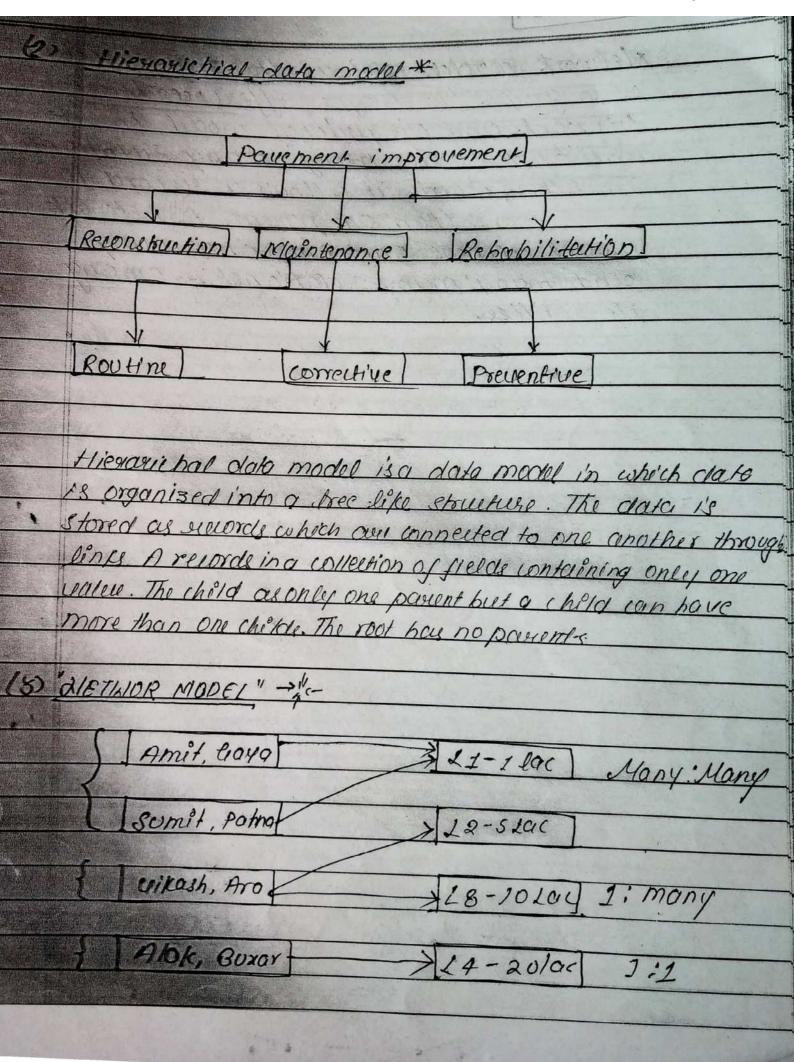
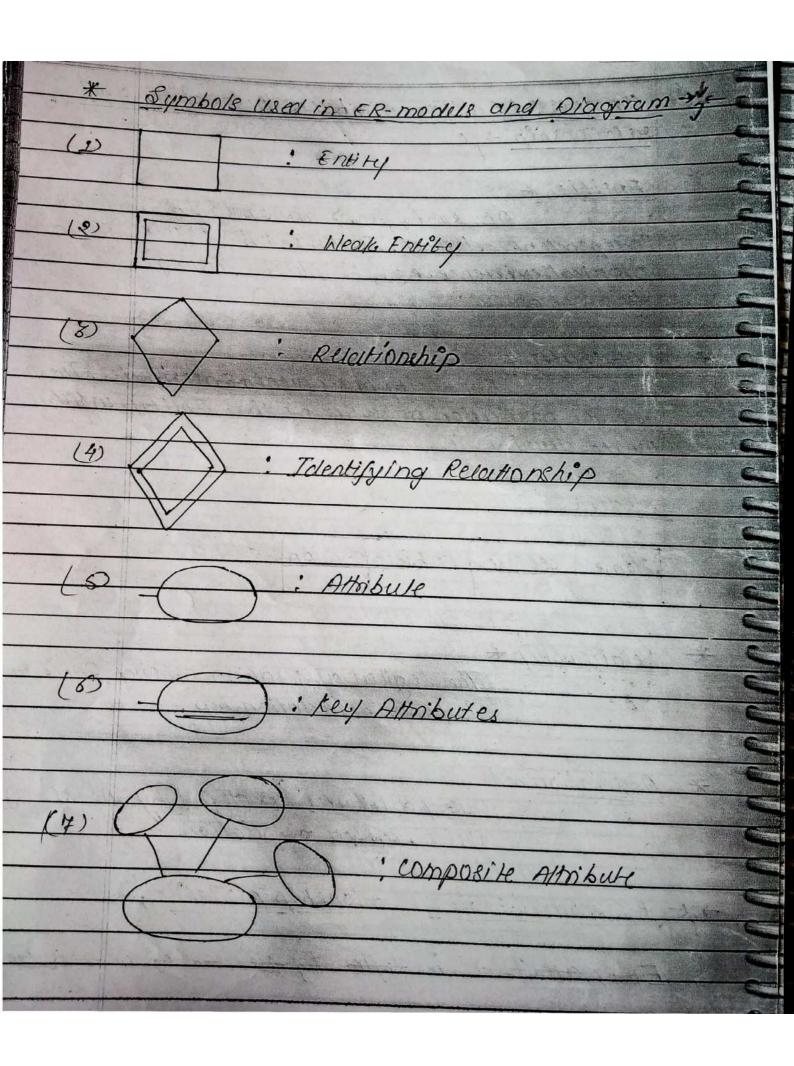


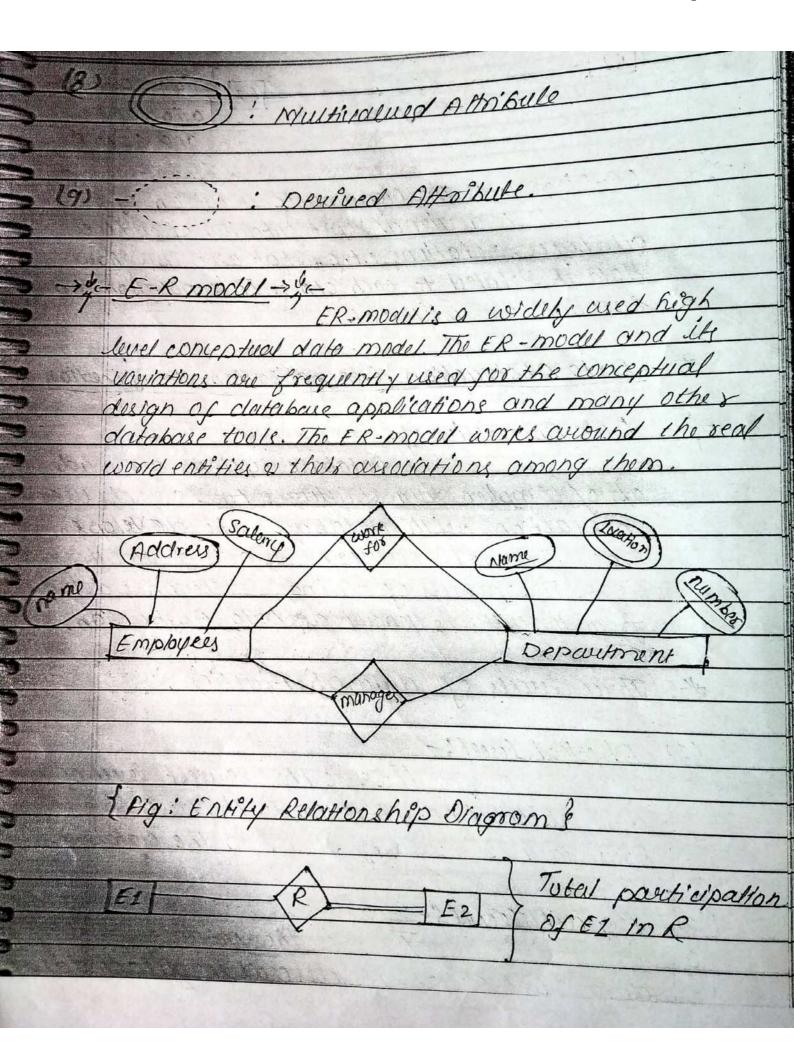
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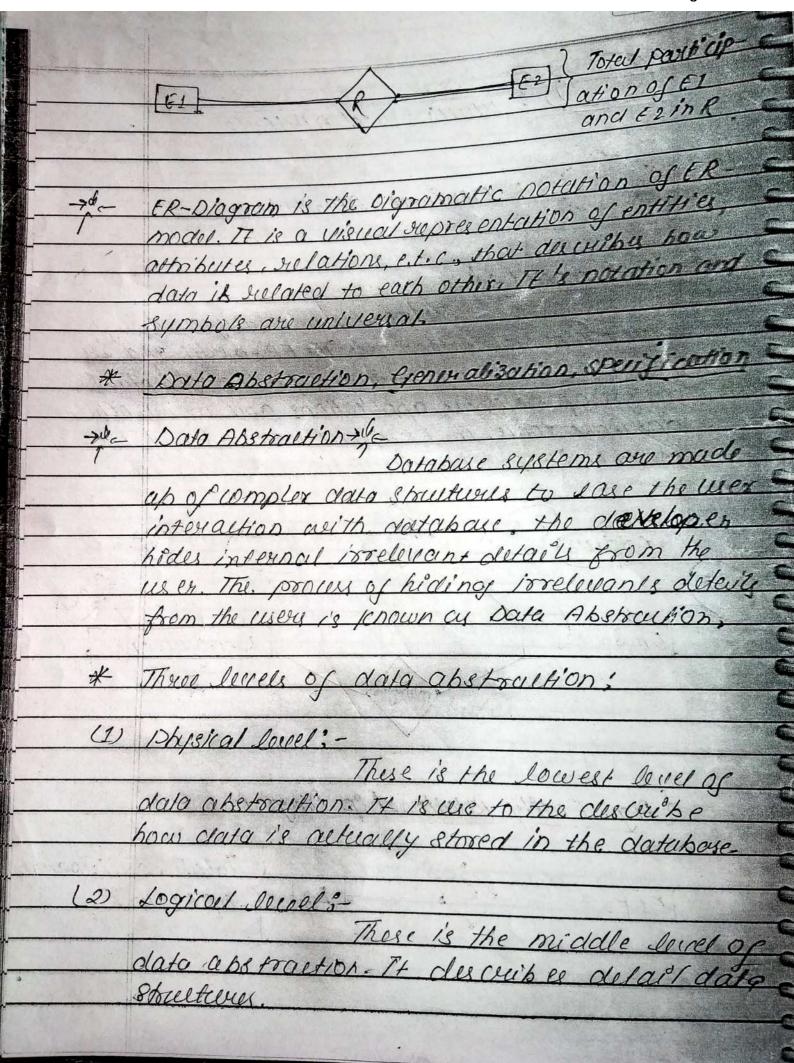
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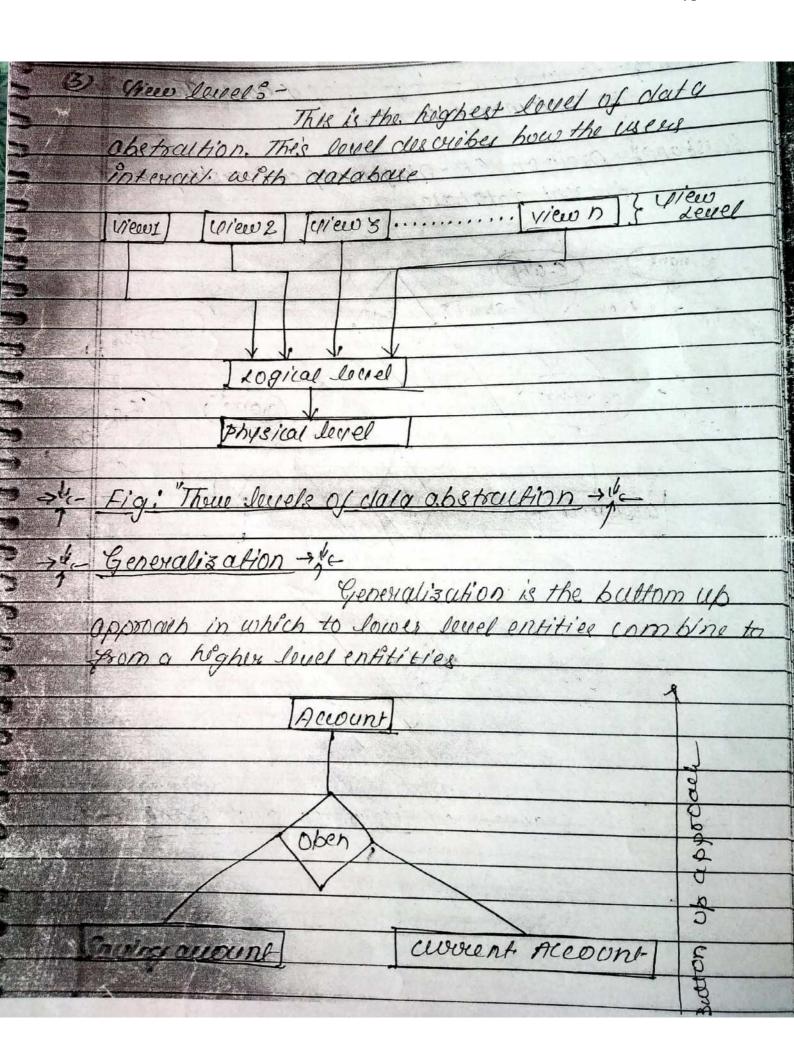


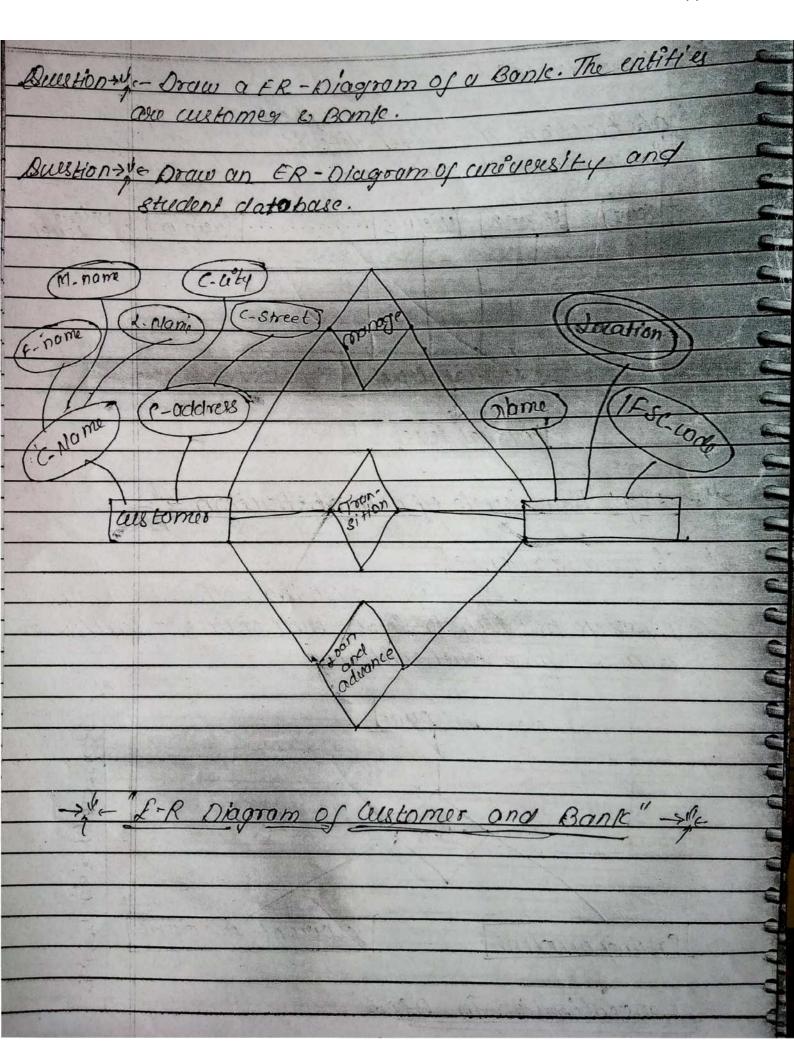
うった	oul2016 cnit. 2 } Date model - 1 -
	selationship - ye
**	Entities * At Entity is a real word think with an Endependent existence. It can be any object with a physical existence e.g., Employee, college, currency, From etc.
* * * · · · · · · · · · · · · · · · · ·	Attributes * En entity has certain attributes. These are the particular properties of that Entity, which is use to describe it.
	Student
	Palame course subject session Attributes
*	Relationship * The logical association among Entitles is prown as Relationship.
*	Association *
	Fueny attributes is define by its set of values culted association.

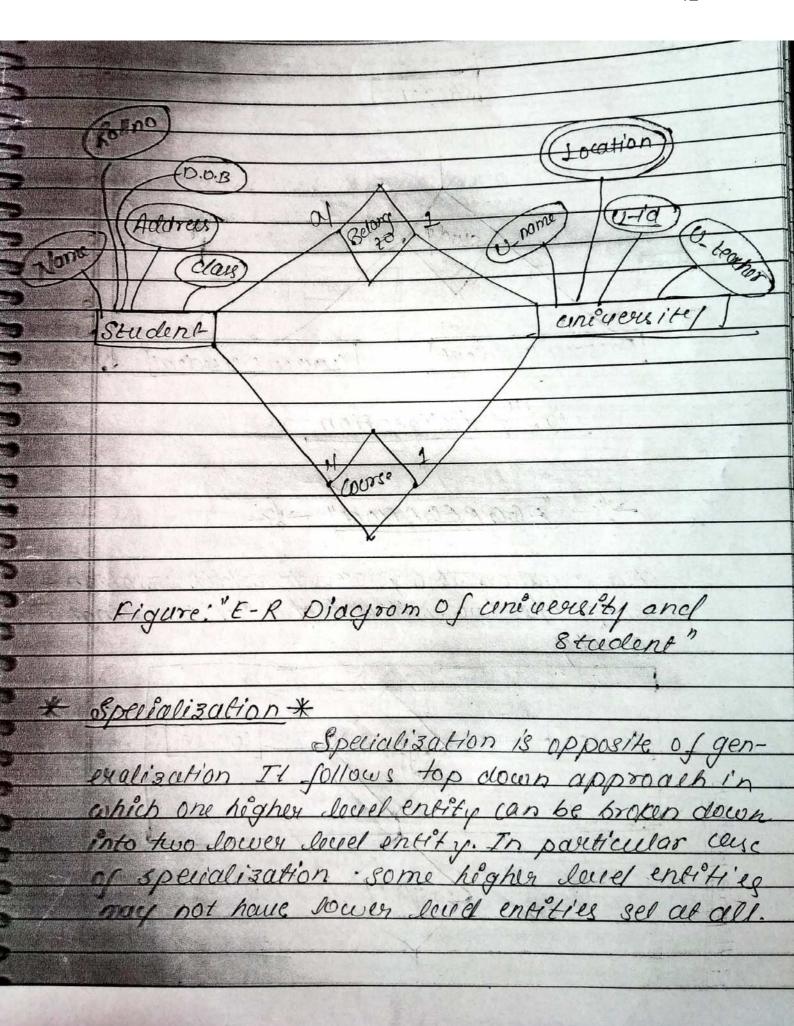


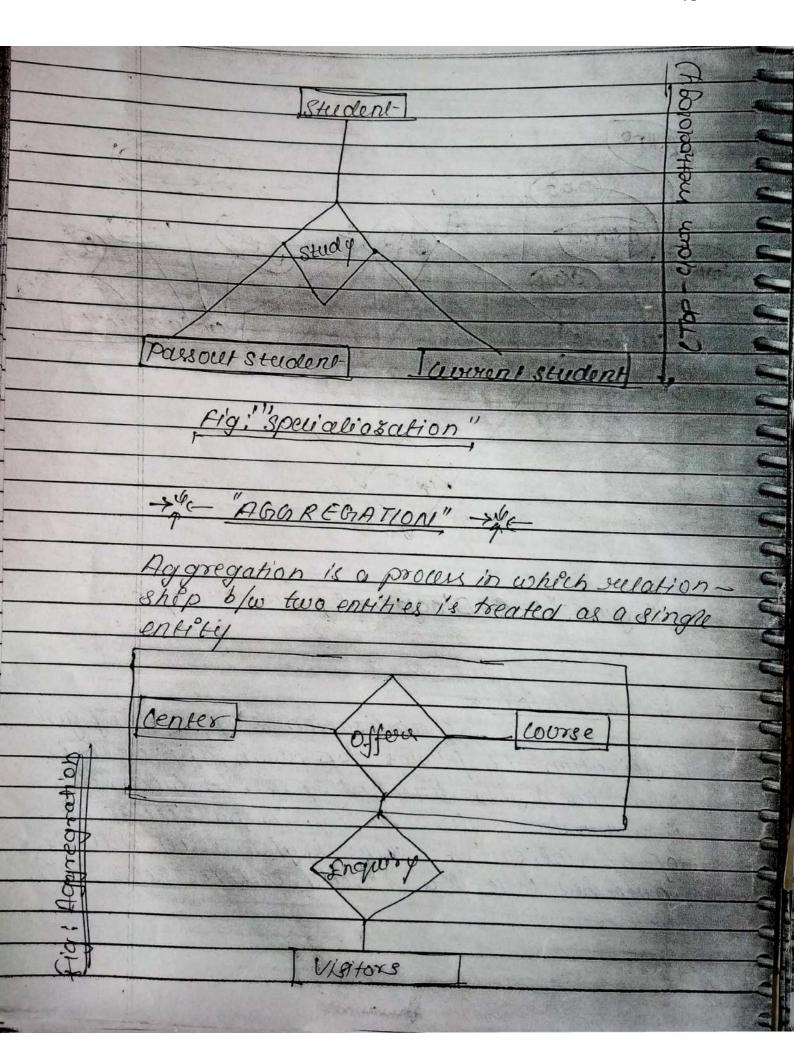




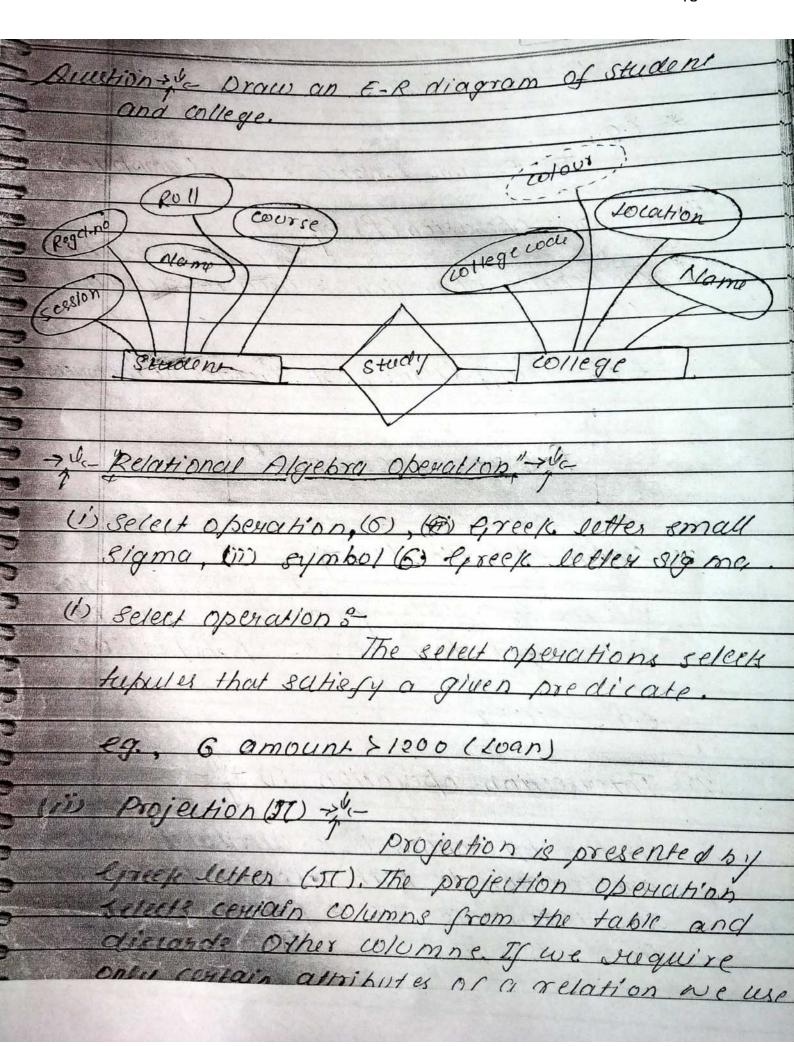








	Pelationships 6/w entities +/c
#	
	Binary relationships - Binary Relationship exist
	Now two entities. It is fronther de wided into three types.
cis	One-to-one's-eigi,
	Student 1 (envol) 1 [course]
	A CONTRACTOR OF THE PARTY OF TH
(ii)	One-to-many 3-e.g.,
	[customer] N want 1 Bonk]
	The state of the s
(iii)	Many-to-Many = e-9.
	employee Subordinate Subordinate
U- 1	Remusive Relationship
	when an entity ie
.9	elationship. When an entity is relationship.
	The transfer of the state of th
	The state of the s



	projection Operations.
*	
	To F-name, L-Name, scalary (Employee)
(iii)	Rename Operation (f) 30c Symbol (f). Rho.
	The Rename operation is used to renome
	the sulation name or detribute name
	eg., Pereis (Name, DOB, Gender S(Employees)
	Ps(B1, B2, B3Bn)(R)
(iv.	Union openation (U) +de-
	all the attributes of R1 and relation R2
	are menged together. The symbol is "U",
	e.g., RIUR2
(11)	
(10)	Intensection operation (1) +0-
	section operations those altributes which
anc.	are common to both relation RI and RZ
12 62	and taken into a/c & form a new relation. Its symbol is 'n'

	eg., RINRZ
(VI)	Difference Operation ("-") + i'c-
of the section of the	It is each or
	by the symbol "-". A Relation R-S is such a
	Ora lasting and orally of the contraction of the co
772	which are present in Helation of the A Sai
	in relation s.
(viii)	Constanting to the sound (V) and
(01)	Courtesion product (X) - De A Relation RIXR 2
	and produces such a selation that has all the
	attributes of RI and RZ and Includes all
	DOSSIBLE combinations of tupules RIama RZ
	e.g.,
	R1(1,3,5)
	R2(2,4,6)
And the second	R1XR2 (12,14, 16
	32, 34, 36
	52,54,56)
	State Commence of the Commence
	THE RESIDENCE OF THE PARTY OF T
EXECUTE:	TO POST TONE TONE PROPERTY OF THE PARTY OF T
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SQUE LAND	

	Data Medel
26/1101	Unit 3 Relational Data Medel
261	
	Steident 3-
	Attributes or Domain primary key
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	Student name Regino Rollino. Session BCA - Session
	Turket Turket
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7 400	
*	Primary keep*
	Primary Key is the most important
	attribute which holps to identify all the tuples
	& records uniquelly.
	-> l- "condal'a pula" 34.
V S S S S S S S S S S S S S S S S S S S	-> le "codd's Rule" -> le
	Edgar F. codd desines a set of twelve succes
	(0-12) for a dalabase to be considered as
	Julational Database Management System.
*	Rule: 1> Information Rule -> 0-
- 1 × × 1 1 2 1	FURNITHION 12
N AND	oranges inter he stored in table formate.
3.	
*	Relle: 27 Guaranteed Access Rolle - de
	Rule: 27 Guovanteed Access Rule - Lucry
5 20	Strige clare elemente le coloxolottal la la marce
	Signal Colling (IV) Alborian Mala
	Thank of entroutes. Mo other means can be
	cise to circles dato.

Rule; 3 > Systematic use of MULL values - the Value in a statabase must be used systematically a in uniform manner. NULL can be interpreted as missing data, date not non or data is not applicable. * Role: 4's Active Online Cat log & The streetwee

| The streetwee
| The streetwee
| The streetweet database must be store of
| in on online catlog known as day dictionary. * Role: 5) comprehensive dater sub-language + de A database con only be accessed wing a longuage howing longrage syntax that supports nate definition data manipalation and many other forms of data operations. operations. Role: 65 View Updating Rule: 76 All the views must also be updated by the system. * Role: 7) High-Bivel, insent upelate & Delete suelle 36 A database must support high lovel insertion upportion & deletion of all records. This must bot be limited to a single xecord (a row).

** Rule: 9 > Logical data independence - to fegile data independence must be independent of its cuers view copplications). This is one of the m difficult scale to apply & follow. ** Role: 10 > Integrity Independence - to Database must be independent of the applications that it uses. This scale melles the database independent of front end application & its integrace. ** Rule: 11 > Distributed Independence - to Juagarded as the foundation stored of distribute deltabase system. In this scale, the end were must not be able to see that all the end were	* Rule: 9 \ Logical date independence data independence must be independence users view opplications. This is one difficult suite to apply & follow. * Rule: 10 \ Integrity Independence > 0- De	sicals by
** Rule: 10} Integrity Independence of the paylical structure of the paylical structures when independence of the material independent of its trues when the paylications. This is one of the material independent of patebase must be independent of the applications that It uses. This stule makes the database independent of front-end-application is its integration. ** Rule: 11) Distributed Independence of the material independent of the send cuer in this stude, the end cuer must not be able to see that data is distributed over the data is distributed in the foundation should always get the impression that the data is connected at one of the oney.	* Rule: 10's Integrity Independence > le	cicelse by
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* Rule: 9 } Logical data independence to file data independence must be independent of its cusers view copplications). This is one of the m difficult suite to apply & follow. * Rule: 10 } Thiegrify Independence to Destablish must be independent of the applications that it uses. This suite makes the database independent of front end application & its interface: * Rule: 11 } Distributed Independence the suggested as the foundation stand of distribute destabase system. In this suite, the end were must not be able to see that data is distribute over yearious location uses should or any get to impression that the date is connected at one side only.	* Rule: 9 } Logical date independent data independence must be independent cusers view copplications). This is one difficult mule to apply & follow. * Rule: 10 } Integrity Independence > 000 Delications of the pendence of the pendenc	
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# Role:12 Mon Sub Version Rule > 4 Role	# Role: 10} Integrity Independence > 0	7 /000
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* Rule:11) Distributed Independence - Concert of the Market not be applications that it uses. ** Rule:10) Thregrify Independence - Concert of the applications that it uses. This shale makes the applications that it uses. This shale makes the database interpendent of front-end-application & its interface: ** Rule:11) Distributed Independence - Concert of distributed from stored of distributed from the suite of the end were must not be able to see that data is distributed over application uses should always get the impression that the date is connected at one site only. ** Rule:12) Non sub Cression Rule:	* Rule: 10} Integrity Independence > De	nt of ils
* Role: 10's Integrity Independence > 10- be independent of the applications that it uses. This such meters the database independent of front-end-copplication & its interface: * Role: 11\ Distributed Independence > 10- # Role: 11\ Distributed In this such, the end were must not be able to see that date is distributed over yavious location uses should order ays get the impression that the clase is connected at one site. * Role: 12\ Mon Sub Version Rule > 10- * Role: 13\ Mon Sub Version Rule > 10- * Role: 14- * Role: 15\ Mon Sub Version Rule > 10- * Role: 15\ Mon Sub Version Rule > 10- * Role: 15\ Mon Sub Version Rule > 10- * Role: 15\ Mon Sub Version Rule > 10- * Role: 15\ Mon Sub Version Rule > 10- * Role: 15\ Mon Sub Version Rule	* Role: 10) Integrity Independence	
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# Rule: 12 Mon Sub Version Rule = 4 Rule: 12 Mon S	that is uppercontains that	1 1 6 wes.
# Rule:11) Distributed Independence. Their yello Jugarded as the foundation stored of distribute Autobase system. In this suite, the end wer must not be able to see that date is distribute over yourious location user should always get the impression that the date is connected at one site only. ** Rule:12} Mon sub Version Rule 34	This still meyes the database indo ne	ndone of
Role: 11) Distributed Independence. Their relation stored of distributed Acutabase system. In this sude, the end were must not be able to see that date is distributed over covery conjour location used should acuracys get the impression that the clase is connected at one site. Only. ** Role: 12) Mon sub Cression Rule - 4	Front - end - copplication & ils integral	ree :
Jugarded as the foundation stored of distributed Acutabase system. In this such, the end were must not be able to see that date is distributed over your cours to the class should always get the impression that the class is connected at one sife only. ** Rule:12} Mon sub yersion Rule >4		
Jugarded as the foundation stored of distributed Acutabase system. In this such, the end were must not be able to see that date is distributed over your cours to the class should always get the impression that the class is connected at one sife only. ** Rule:12} Mon sub yersion Rule >4	* Kule:11) Distributed Independence	sile 9
Actobase System. In this suite, the end were must not be able to see that date is distributed over your continus location uses should always get the impression that the clase is connected at one sife. Only,	The second secon	TT.
must not be able to see that class is distributed over your included allowards get in impression that the classe is connected at one site only. ** Role:12\text{\text{Non Sub Gersion Rule}} \(\frac{\text{\text{Should}}{\text{Connected}} \) at the class of the site of t	dela la the foundation stored of	-11.11.
Over yourious location user should orlunais get the impression that the clase is connected at one site only. ** Rule:12\ Mon sub yearsion Rule = 4.		
impression that the clase is connected at one site only. ** Rose: 12) Mon Sub yersion Rule 34c	The total the contract of the second	1.
* Role:12) Mon Sub yersion Ruly -4	111111111111111111111111111111111111111	
* Role:12) Non Sub yearsion Ruly 34c		1 at one
	SITE. Only,	
	of Contract of	
	KOIE. 12) MON SUB CRESSION RULL 34	
on interface that provides access to		A STATE OF THE STA
	in interface that provides access	a system

South seconds than the interface must be able to sub vert the system & by pass security & fategrety constraints. * Primory sey * in the principal of A primary key is used to identify individual tuples in a sulation. A primary key contraints cannot have Mull values. Hauing NULL values for the primary 1018 means that we cannot identify some tuples. * Foreign Kuy* when two sulations are associated in such a manner that at least one of the altoburg is common among them than the por many leng. of first sulation becomes the foreign lay in Sowna Julation-Condidate key * In obsence of primony Keys the next most suitable altribute which can help to known as candidate key. Relational Algebra and confeurous Alcyebra is the bask set of operations for relationed models. This operations enable users to specify basic neterival suggest. The algebra operations. thus product new rolations. A sequence of

6 sal > 30,000 (Employs)

(ii)	Project operation (Projection operation)
	Toper openation in egent of
4	The project operation selects certain columns
7	from the table & discourds other columns. If we
ELEGINA I	required on the cluterin cuts buter of a relation
	we use project operation, it is denoted by "Tt".
(iii)	Rename Operation:
	The Rename Operation can rename
	esther the relation name or the altributes name 1/
	is donoted by the "Rho(P)".
*	e.g.,
A	PS (B1, B2, B3 BD)(R)
	(Staff (name, DO13, Gender) remiolog)
	Plname, DOR, Grenden) cemploys
*	e.g., of project operation *
	Hrome kn
	TEProme Iname, say (empley)
Welling in the	
(N)	Union operation 3—
	To oping observed as
	To onion operation all the attackets
	relation 1 (R1 & altributes of sulation 2 (R2) and
	together. It is donoted by the "U"
	eg. RIUP2
•	
(V)	
	Intersection Operation :-
The state of the state of the state of	

An Intersection operation those attributes which are common two both sulcitions RIBRZ and taken At Into ofe & form a new relation. Intersection operation is denoted by symbol "I". * eg., R1Sl.R2 = {2,4} (vi) Difference or minus operation - I It is denoted by the symbol "-". R-S is a relation which includes all tupies which are present in R but not sullation S (vii) carresian product = 5 - Symbol (x) RI = { a2, a2, a3 } R2= { b1, b2, b8} RIXRZ = (a1, b1), (a1, b2), (a1, b3) (02 61), (02 62), (02 63) (0362), (0362), (0363) RIXR2 produces a solution that has the attributes of RIARZ & includes all poss; by combination of tuples R12R2. - SOL (Streetwood Querry Language) -SQI Is used to access database records &

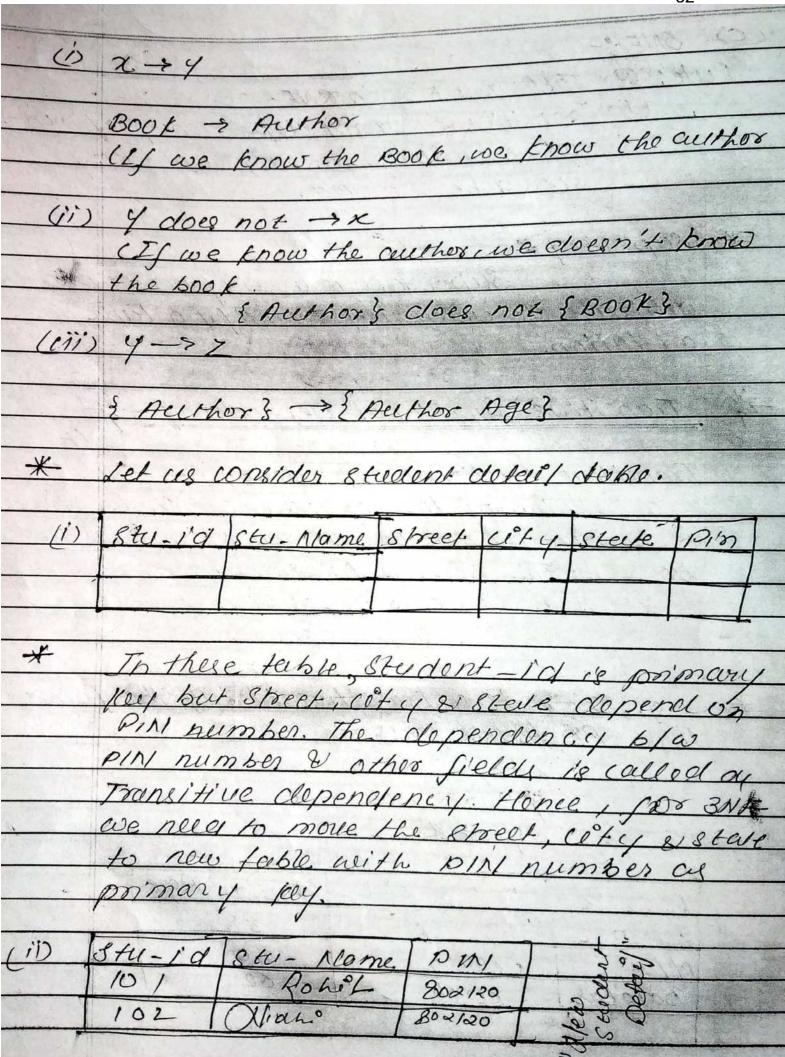
	Schemas, di	eleting relation	ns & modif	ying		
- 5	delations.	•		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
				The second secon		
(1)	Croate con	nmands-				
*	Synteix:					
OL LINE	CY	ecute tenble L	table name?	> (A1.		
214	· F	72, A3 An,	Integrity a	onstr-		
26	C	ofnis (A P));				
			9			
*	where, AI	, A2 wu al	tributes of	the tuble		
*	example -	· de				
		7				
	create tak	re leistomes	CONCLETE ON			
		nome waver	The second secon			
	customer street char (30),					
		- Chy char (
	The state of the s	Key (custom				
(a- 6)		The second second	AS DATE OF THE REAL PROPERTY.			
*	cuesto mes	westomen	cestomer	Schema		
	name	stree	(ety)			
	create com	mands 140 at	ea Databa	ie scheme		
	It means to	Moute the	Streetien	st the		
	10620.			9 7 10		
(11)	Dron com	manel?-	The Sales of Association A			
*	Syntax *					
	y mental a	Drop toble (table-nomes			
		The second secon	THE COURSE OF THE PARTY OF THE	THE RESERVE THE PARTY OF THE PA		

-	
*	e.g. Drop terme westomer.
	Top terble westorner.
-91	Drop command is use to remove the relation
Ki ça	from database
	Destricted to
Lili	Alter commands-
The second	The Committee of the Co
¥	Synter :-
Para September	Alter toble Llable - nome; add A
	08 Alter teible < teible_name > 1000 ps 10
*	e.g.,
The second secon	Alter telbre lustomer adel customer i'a
	Alter table westomer drop westomerid,
(2)	OMI (Data manipulation Language) - sign
N. Stellar Stellar	
(11)	Select command 3- Syntex:-
AUNIO	select (attributes)
	from < relation / Table_namos
	where conclision
*	e.g., select wistomen nam will tomer street
	From customer
	where evetomer lity = patna
.)	
(4)	Tosent command s-
	AND WEST AND AND THE PARTY OF T
*	Syntox:-
	Insert into (Table name)

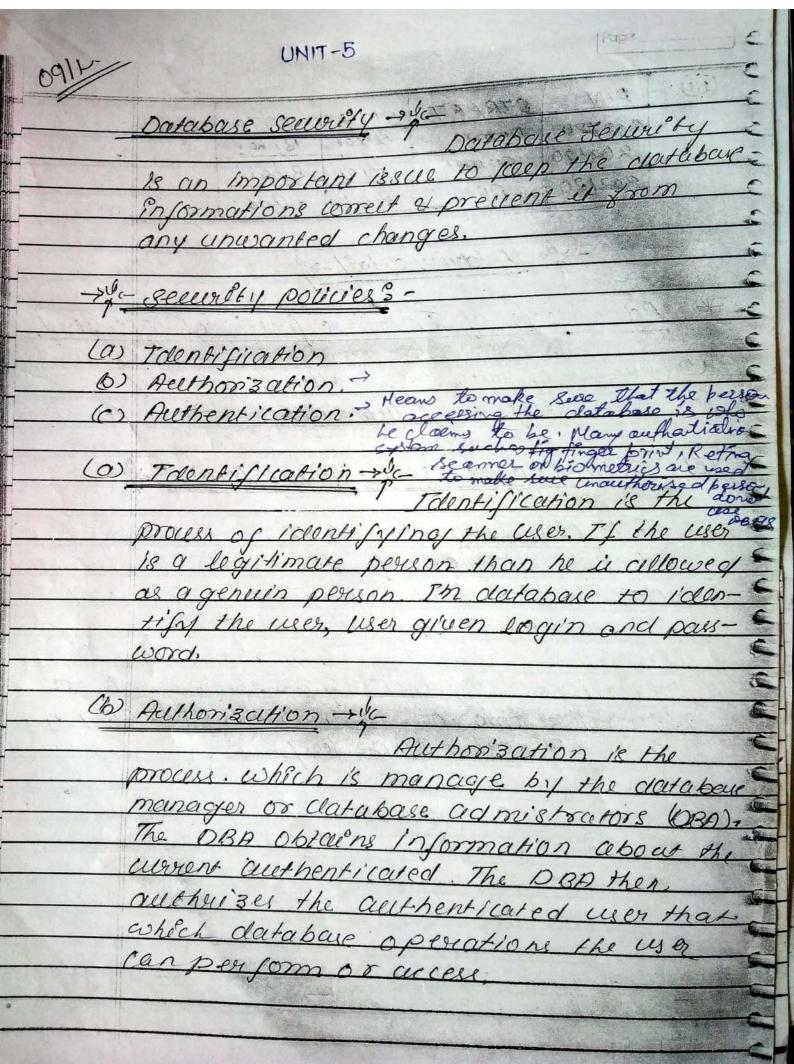
	28	-
	""Comit"	
*	en Tours into mer mar maleres to Amor	
	" Patra".	
	eg., Treent into customor calcula ("Amit", "Boning road", "Parra").	96
-		6
(0)	Delete command:	-
		6
*	Syntox: Delete from < Tuble names	
	where conditions	
*	eg., Delete from customer	-
	en hora cereto mos nome = Amit.	8
1011		
(d)	Obdate command:-	
-	In contain situation,	
	we want to change a latue in a tuple	
	without changing all the values in the tupl	,-
	For this puripose, we use apolate command	4
*	Syntax' - Upolate (table-nome)	6
	where (conclition)	6
at.	en upplante colo	
	e.g., update. a/c	
	set balance = balance # 1.05	
	cohere balance >1000	
(3)	DCL (Data Control Language) - 1/2	
	and we by doitabase administrators to	
	DOD the Matabase end of an and	
	cop the databoue safe & secure ony	
	underthorised lesen. Grant & Recioke	
	are common commund use by DBA	H
		4
St. 12 12 12 12 12 12 12 12 12 12 12 12 12		4
		CH

		29
	Unit: 4 "Normali scition"	Don .
		FUGE
	Normalisation is a process of decor	mposting terbles to
	Winnie at at the sunder stantill KENE	CHOCK COLL
	The change land lake to the Thepaltion	1)1011011
	is a multistep process that puts	table into tapellax
	form by sumoving desplicate clases	from the table
*	There con four normal forms?	
(a	First normal form (INF).	
(6)	Second normal form (2NF)	6
(0)	Third normal form (3MF).	
(d)	fowith Mormal form (BCNF).	*
(a)	Pirez normal form (INF) - inc	
	The state of the s	
2	Rule: Fach attribute in the tou	ble must have
建筑 地域等	atomic. (single) yellus!	
Nation of the second	emp. Id emp-name emp-add	
	102 Rohit Dummi	012345
	102 1 Kunwas Dumri	0762850
	Employee (Tobie INI)	
(6)	Second Mormal form (2NF) +16	
	Rule: A table is said to be in a	2015 24 11
16	77	I holds -
	The table is in INF. No non po	me altosbute le

) I
(0)	3N/F3-
	ele: (1) Toble must be in 2NF.
	(in transitive functional dependency of non-
ENT 5.	prime attributes an any super key
	should be sumored.
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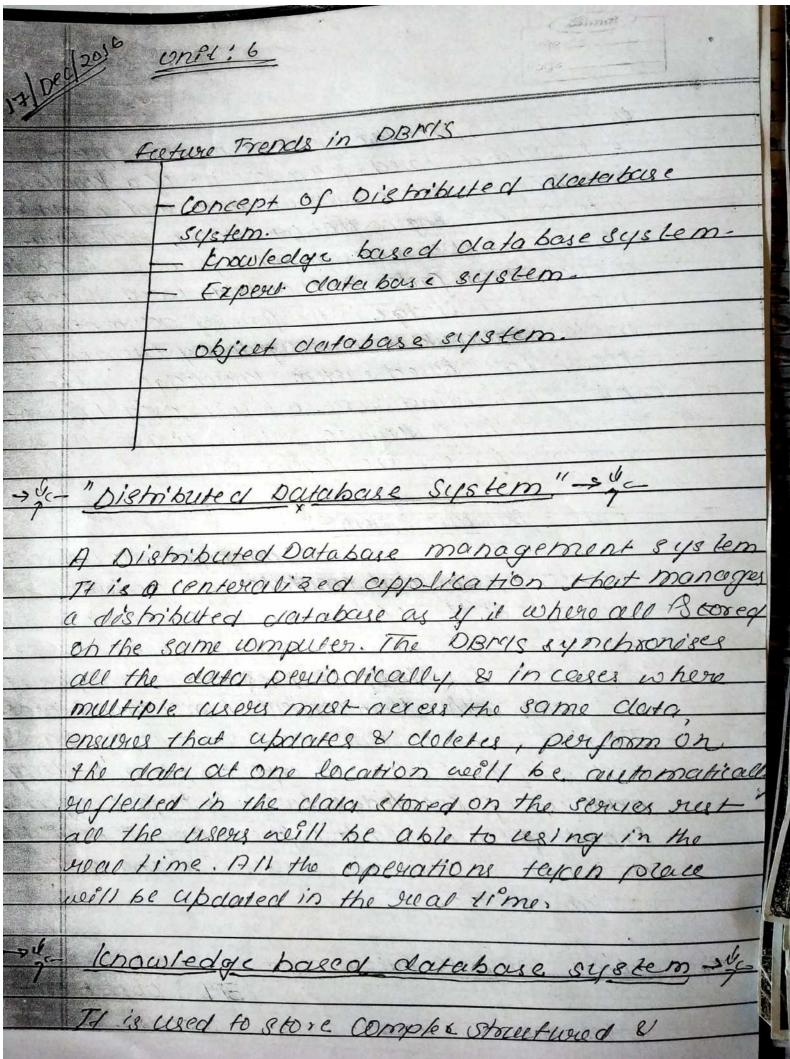
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The can be based on individual actions.

Auditing is used for the process of monitoring Auditing is used for the pumpose of -* Enable futive a accountibility for the correct aetions taken in a particular schema, takle * Investigate doubfful activate. * Monétor & gather data about specific data-* Deteit problems withen authorization or access
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	wise the next log file is secuched to
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11	LODGE STANDARD TO THE STANDARD



constructed information use by computer system. A knowledge based system consist of a knowledge base that supresents faits about the stood world & interference engine that can reason that about those facte & uses rules an other sorms of logic to deduces new jack. A knowledge based system provides procupedge in the form of document & & onedia that could be decresagede by humans. In knowledge based system, knowledge is the polmany duliving force which is used by compiters & other automatic machines to generates & show new faits & knowledger. Expert Datobase system + ve An expent system is q computer system that emutates the decision making ability of human expense. Fapout system are design to solve complex problems by sucuso ning about knowledge, supresented mainly or if then seedes rather than convential procedural code-The first expert system was created in the 1970's & than in the 1980's. The expert system is mainly made up of knowledge base & "interface engine". Expent eystern 18 used to inforecasting & predictions, medical evence that diagnouses planning and designing e.t.c. object database system - 1/2 onted database manacrement

