•	
	Day 4
*	
7	within a transaction, you can have 2 savepoints
	with the same name
*	the latest sovepoint superclass the previous one
*	the order savepoint to longer exists.
	Mysac-Read and write Consistency
	tin a multi-user environment when you SELECT from
	a table you can view only the committed data of
	all usens plustunion.
	changes made by you.
	J J J J J J J J J J J J J J J J J J J
	ACID properties in RDBMS 8-
	A > Atomicity
	C-7 Consistency
	I -) I so lation
	0-7 Dunability
	place at once or doesn't happe at all
	place at once or doesn't happe at all
	Ceg. You withdraw Rs. Sook from your bank account
	Consistency: - the database must be consistent before the and after the transaction
	before the and after the transaction
	(e.g. same as above. Deposits and Balances Tables)
	U T T T T T T T T T T T T T T T T T T T
	Isolation: - Multiple transaction occur
	independently without interfacence.
	·

Duriability of The Changes of a Successful transaction are permanently even it putter the system failure occurs. \* Automatic row locking mechanism in Myson: \* When you update or Delete a row, that now is automatically "locked" for other users \* Row Locking In mysal is automatic \* When you Update or Delete a row, that row becomes READ-Only for other users. \* Other users can Insert rows into that to then were can update or Delete "Other" rows from that table \* Locks Are Automatically Released When you Rollback or Commit Etlect \* from emp. where dept no =10% for update weit 30; 1- seconds \* if now is available, then lock it i wait in the request for the specified time posiodi it row's still unavailable, then about the operation \* Locks are Automatically Released When you Rollback or commit

b. Check printing

	Select rpad (ename, 25, 1) from emp; sellect rpad (sal, 25, 1) from emp;
	Select rpad (ename, 25, '*') from emp;
	uses 9. Lett justification of numeric data.
	b. convert to varichal to char (convert variable length to tixed length).
- <del>/</del>	- Implement INITCAP OF ENAME in MYSOL AMIT-> Amit
*	Display the ENAMES centre-Justified  Assume screen width is 80 chanacters.  38*Amit 38*  31* DIPESH 37*  37* NIDHI 38*
*	Select Itsim (ename) from emp; 1/1et Trim
(	uses:-  ulettiutification  eg mod (Itrim ())
*	select rtrim (ename) from empi
	a. convert chan to Vanchan (convert fixed-
	length to variable length).

	b. Right Justification of chandata.  Ipad (string)
	Select trim (ename) from emp; HR  Il Removes blank spaces from both the side in mysal.
4	Substring
	Select Substr (Ename, 3) from emp; Select Substr (ename, 3,2) from emp; select Substr (ename, -3) from emp; Select Substr (ename, -3,2) from emp;
	update emp set ename = Substr(); uses i- a. used to extract a post of the string setert replace
*	Seject replace (enam; un', 'xy') from emps
	Frxyz Parxyz Tarxyz Arxyz Etc.

*	Select instr (enum, 'un') from emp;
	"Returns starting position it string is not
	found then it returns o
9	Check 'un' in the string position
	Uses 3-
	a. used to chark it one string exists in another
	one
X	select length (ename) from emp;
	1/ select length of chame column
*	select ascii (ename) from dual
•	select ascii ('Z') from emp;
	122
	122
,	122
*	select distinct ascii (z') from emp;
	122 11 remove duplicates
- ***	Selectasciic 'z') from dual;
,	+ Dual is system table
^	titis automatically created when you
	installmysel
	* common for allOBMS
	* Dual contains only 1 row and I column
	* Dual is a dumy table.
	$\mathcal{S}$

X	Mysol-sal Number function
	+ Enled 5
	+ Select 70 Emp
	Emp Salary
	.2772.6789
	2582.6259
	5792 - 3279
· ·	8742.2121
	•
*	Sselect round (sou) (for emp;
	2772
	2582
	5792
*	
	Select round (Sal, 1) from emp;
	2772.6
	2582.6
	57a2·37
+	Select round (Sal, 2) from emps
	2772.67
	258262
	<b>5</b> 792.32
*	colol x-111 Co 1 02 C
	select round (Sal, -2) from emp;
	23726 2900
	2600
	5800
	4700

*	
1	Select truncate (Sal, o) from emp;
	the decimal.
	2772.
	2582
	5792
	Wes :-
	Age calculator,
	Time calculation.
	Select truncate (sal, 1) from emp;
	1 <del>234</del> .2772 8
	2582.6
	5 792 - 3
	Select truncate (sal, -2) from emp;
	2700
	2500
	5700
	5 700
٧.	0 1 2 (21/2 00
7	ceil -> celling
	select seil (sal) from emp
	Il it any value indecimal then it is add I whole
	number.
	2773
	2583
	5793
	8793
	D.T. III

*	Select mod function select mod (9,5) from dyal;
	Select mod (8-22, 2.2) from dual 1.62.
*	Select sgrt (81) from ducti
	lonly work with positive number
*	Select power (10,3) from dual;
*	Select abs (-10) from dual; Il absolute value
	MysQl Date and time function and formal  * Date, Time, Datetime, year  * 1st Jan 1000 AD to 31st Dec 9999 AD  * No promon of Yok  -1-838:59:59' to '838:59:59'  * YYYY-MM-DD is the default Date format  * YYYY-MM-DD or YY-MM-DD  * PTO is the year of the Epock.  * T bytes of Storage
	* Internal date is stored as a fixed size
*	Select Systate () from dual;
	* returns DB server machine date and time

*	select systemers, nowers, steepers), systeme, nows)
	from ducul 20:17:18, 20:17:18, 0, 20:17:18, 20:17:18
	Sysdate();
	9. Dute and time displays
	now
	uses:-
	9. Maintain logs et user action lo percutions
*	Select addate (systate (),1) from dual.  -> Ral kya date pai, after 1 day Pate
*	select addate (systate (), -1) from dual; > kal kya date that, before 19day date.
*	Select diffeditt (systate(), hiredate) from emp; I returns number of calendar days between the two
*	select date add (hiredate, interval 2 mont) from emp;
	11 add to months
	$\frac{2023 - (0 - 02)}{2023 - 12 - 02} - \frac{12 - 02}{2023 - 12 - 02}$
	2024-12-02 -> 2025-02-02
*	select date add ( hiredate, interval -2 month)
-	from emp;
	1 subtract 2 monts. 2023-10-02 -> 2023-08-02.

*	Select data
*	Select date add I hiredate, intervals I year) from
	Select date add hiredate, intervals -1 year) from emp
:	
	add time
*	Calad
	select addtime ('2010-01-75 10:00:00', ("-1) from
	2900
	9:59:58. 1-1 sec.
*	select add time ('2010-01-15 10:00:00', '1') from dual 3
	-> 2010-01-15 10:00:01 11 all 1 sec
	1 200 1 1 1 200 1 300
*	select addfime ('2010-01-15 10:00:00', '1:30:45') from-
	2010-01-15 11:30:45 // add 1 hr 30 min 45 src.
	2 10 01 13 11.30:45 // Add 1 NJ 50 MIN 435/C.
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