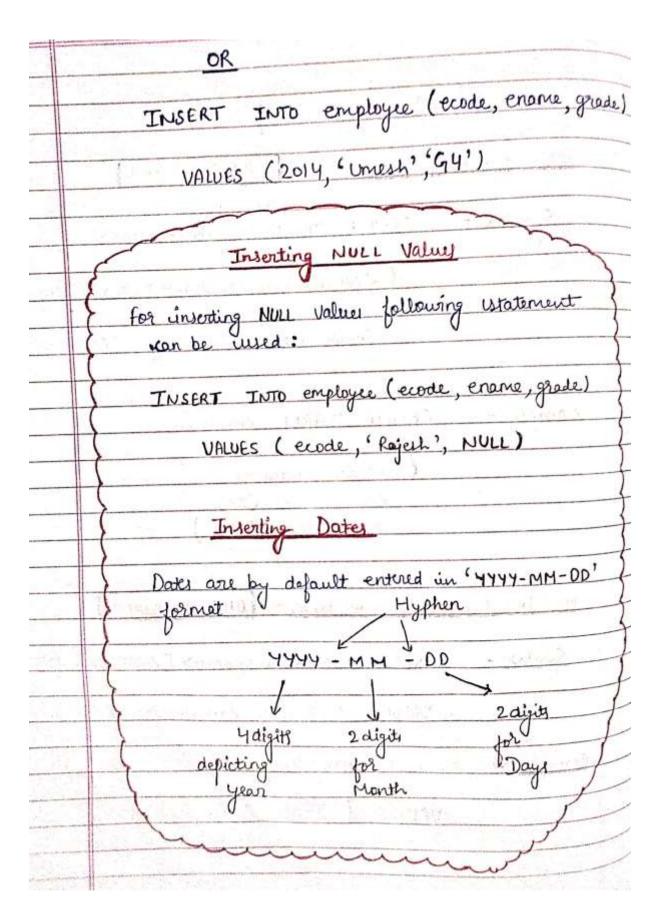
	Structured Query Language
	· According to ANSI (American National Standards Institute)
	it is the estandard language for Relational Database Management Systems.
	. DBMS that use SQL are:
	oracle, Sybase, Microsoft SQL Server, Access, Ingresett
Que	· What were various SAL commands?
Ans	SQL commands mainly divided into following kategories:
	(i) DDL (Data Definition Larguage) commands -
	Commands vielated to Data Definition, example
	-> creating altering and dropping
	→ Greating, altering and dropping. → granting permissions etc.
(ii) DML (Data Manipulation Language) Commands -
	Commands that perform Data manipulation, example
-	-+ Retrieval, insertion, deletion and modification etc.

	(iii) T(L (Transaction control Larguage) commands -
	Commands that manage and control the iteransactions
	The state of the second
	(involving many esteps
	example
	→ making changes to database → undoing changes to database → creating Savepoints → Setting properties for current transactions
Ques	How to orun SBL queries in Base?
Ans.	For running SQL queries in Base follow these exters
	1. Go do Tools -> SQL command
	2: write SAL command in Command to execute be
	3. Click Execute Button.

19	SQL Commands
(1)	for creating Tables -> DDL command
	Syntax - CREATE TABLE
	(< (column name> <data type="">[(<size>)],</size></data>
	<(olumn name> <data type="">[(<sige>)])</sige></data>
	example - CREATE TABLE employee.
	ename when (20),
	grade whan (2)
(2)	For Inserting Data into Table - DML Command
	Syntax - INSERT INTO Stablename> [< column Lit>]
	VALUES (<value>, <value></value></value>
	example - INSERT INTO employee
	VALUES (1001, 'Amit', 'E4')



3)	For Selecting Data from the Table - DML Kommand
	General John Syntax - SELECT what to Select FROM which table
	WHERE conditions_to_satisfy
1	(i) Selecting All Data
1	SELECT * FROM employee
	(ii) Selecting particular Rows
1	SELECT * FROM employee
	WHERE grade = 'G4'
	(iii) Selecting particular columns
-	SELECT ecode, ename FROM employee
(iv) Eliminating Redundant Data (with Keyword DISTINCT)
	SELECT DISTINCT name from employee
0	v) Selecting from All the Rows - All Keyword
	SELECT ALL enome FROM employee

+	(vi) Viewing Structure of a Table
	DESCRIBE employee
	OPL
	DESC employee
	(vii) Performing Simple calculations
	eculation -> SELECT 3.14159 * 6 * 6
c vc	ment system date -> SELECT (undate ()
	(viii) Using Column Aliases
	(Viii) Using Column Aliases Syntax - Select <columname> AS [columnalia] from <tablename></tablename></columname>
	Syritax - Select (columname> AS [columnalia]

(x)	Condition Based on Range
	SELECT ecode, employeename, grade, salary.
	FROM employee
	WHERE Walary BETWEEN 20 AND 30
(x)	Condition Based on a List
	IN operator is used -> Selects values that match any Value in the given list
	Value in the given list
	SELECT & FROM employee
	WHERE address IN ('DELHI', 'NUMBAI',
	"CHENNAT", "BANGLORE"
	NOT IN operator is used - to find your that do
	NOT IN operator is used - to find vious that do not match in the list
	Liebbar or a ser
(xi)	Condition Rosed on Pattern Matches
	· LIKE is the string-matching operator
	· Two usecial wildcard characters are used:
	(i) Percent (°10) → Substring match
-	(ii) Underscore (_) → character metch

	imple:
	SELECT ecode, enome
	FROM employee
1.8	FROM employee WHERE grade LIKE 'G'/.
	<u></u>
	Lucia
	(grade starting with a)
	anade starting with a
	Colotton G
	The same of the sa
	V 570.4(*7)(X)
l xii l	Connelina les NIIII
(xii)	Searching for NULL
(Xii)	The first of the second of the
	The first of the second of the
	The first of the second of the
	The first of the second of the
	riple: For iselecting employees whose grade nontains NULL value following istatement is used:
	riple: For iselecting employees whose grade nontains NULL value following Ustatement is used: SELECT ecode angues
	riple: For iselecting employees whose grade nontains NULL value following Ustatement is used: SELECT ecode angues
	riple: For iselecting employees whose grade nontains NULL value following istatement is used:

CREATING	TABLES	WITH	Salcon	straints	
To apply condit	ions on	column	sal u	onstraint	is wire
example: If i	we do not	want	particul	an uolu	un
, 0	we do not	able to	be blar	ik, No	T MULL
const	raints v	can be s	used.		-
Various SQL	v enstma	its Are	as u nde	и:	
Occupants on the	201010				1
NOT NULL -	Kolum	cannot	have N	ULL Val	ue
a	defaul	t valu	e kan be	used	- 1
UNIQUE -> a	or uniq	ues in	Column	ared	Heren
CHECK -> Va	lues cin	column	notist	, Partic	ular
(store.	1 74 /		riteria.		-
) '		idon	tilies a f	20087	e P ou
rimory Key →	Chique	y new	D. a.	n Tabl	0 -
hair anni chair		-		- Just	1-
Foreign Key ->	ensures	Referen	ntial Int	e vite of	data
	500 C 11 C 5 - C 1 C - C - C - C				

F.	Defining Primary Key through Create Table Con
	The state of the s
	CREATE TABLE customer
	Cu Id integer not null PRIMARY KEY,
	Last Name Varchar (30),
	first Name varchar (30)
	OR CHARLES IN THE
	- 1000 pts
	CREATE TABLE customer
1	Branch integer not null,
17	Cu_Id integer not null,
	Last_Name Varchar (30),
100	first Name varchar (30),
	PRIMARY KEY (Branch, Cuta)
	(Boanch, Culd)

					-
	Defining P	nimary 1	(ey_through	- Alter Table	Command
	0 7		7		
		1)			
			Customer		
	ADD P	RIMARY	KEY (Cu_	[4]	
1					. 38

4	Defining Foreign Key through Create Table command
	CREATE TABLE ORDERS
	Order To integer, Cu. order name varichan (30), order ref integer,
1	Primary Key (Order Id), Foreign Key (Su. Ed) references Customer (Cu.Id))
{	· Defining Foreign Key through Alter Table command
	ALTER TABLE ORDERS
Y	ADD FOREIGN KEY (Order-ref) references CUSTOMER (CU-Id)

Que - How to view a Table Structure?
Ans: for viewing a Table Structure one of the following commands are used:
DESC orders
OR
DESCRIBE order
Aug. How to Insert Data into another Table?
Ans. For Inserting data into Table following commands are used:
INSERT INTO Orders
VALUES (1002, 'Raj', '502')
OR
INSERT INTO Orders (order_Id, order_name)
For VALUES (1003, 'Reeta') & Inventing Anticular data

Tables? Tables following commands this a DML command Jeha?, Order_sef = 305 1002 Table? A Table?
Jeha? order_sief = 305 1002 1 a Table?
Jeha?, Order_sief = 305 1002 1 a Table?
1 a Table?
1 a Table?
1 a Table?
and the state of t
bles following commands
ance 0
It is a DML command
CHAT THEFT I
ns of existing tables?
d is used to whomse
d in used to change bles:
i.e. Data Definition Command
n

Que	. What is Dropping Tables command?
Any.	For dropping tables following command is
	used:
	It is a DDL nommand
	DROP TABLE employee
	And
	DROP TABLE IF EXISTS employee