Thek: 3.1 DML commands using clauses operators and functions in Queries Aim: To implement of DML commands using clauser, operators and fundions in quenien Dala manipulation Longuage (DML): The Data manipulation Language (DML) is using to relative, insort and modify destructe information. These commands will be used by all datahase besons during the souline operation of the database 1. INSERT 2. UPDATE 3. DELETE This is used to add seconds into a INSERT INTO: orelation INSERT INTO (bobble_name) (field 1, field 2... field b) syntax: VALUES (data 1, dala 2, ... dala N); Example: INSERT INTO padients VALUESCIII, (ASION), 39V1: c cardiology', (Male!); Patient Name Patient ID Deportment Crendon coundi ology Francis male 111

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UPDATE-SET-WHERE This is used to uppare the content of a specord in a spelation Syntax 1 IUPPATE Pahle name SET pielal = data WHERE condition' Example: SOVI: UPDATE Palients SET Palienthame = Kumay WHEKT Palient ID = 111: Take after UPDATE! Patient ID Patient Name Grender pepoulment Cardio legy 111 Kumour DELETE FROM: This is wed to delete all necoods of a nekation but It retains the stoucture gynba: 991: DELETE / FROM fable_name; Example: SOL DELETE FROM Appointments. Approintments table After DELTE: Doctor ID Appoint Appointment ID Ratient ID puralia DELETE-PROM-WHERE This is used to delete specific sieconds foram a sielation Syntan! 991! DELETE PROM table _ name where condition; Example: SOV 1: DELETE FROM podosus WHERE DOODSID = 202;

Dodon ID	Doctosi Name	percoiment	Fas
201	Dir Shauma	Condislogy	1000
203	BM. Ahmed	Neverology	900
204	D91 · Rajesh	orthopedic	500
205	Don. Neha	Dermato logy	800
keeps. the	table story	eta permanently	but

Patient Name DePortment Grender sample ouries and output:

1. Rebrieve patient names ending with letterin'

between 111 and 115 and patient no query: Sevi: SELECT putienthame, Department, Grender FROM Patients ParignHowne LIKE Yn' AND patient ID

PatientName	Department	Genden
Arun	condiol ogy	Mate
Kar an		Male
Rohan	Oorthopedies permatology	Male

Accessional and the second sec	Elitabanes projecti activida di compositi in y considerativi dell'altri			allel ballet and a second and a second and
2. dist dod 700 and 8		e Consul	ation fee	s between
eyvery:	.			
Sal:	1			
SELECT * FRE	M poctours	WHERE	Feed BETWI	E N 700
Doctor ID	Doct	wi Name	pepurtment Nume	Fees
202	Dal .	·priya	Pediabilia	700
205	Day	· Neha	Dermotology	8 00
3. Find the second with minimum appointment duration query: Select Min(Duration) FROM Appointments; Min(Duration) 20 4. Find appointment with date 1 203-02-07 query: sevi: SELECT * FROM Appointments WHERE Appointmentals 1: 2023-02-07'				
Appointment JD	Polient ID	Bodor	ID Appointment Doute	Durchan
302	112	203	2023-02-07	45
303	113	204	2023-0209	20
30A	114	202	2023-02-10	60
305	115	205	2023-02-12	25
	reconstruction of the second s	Bernarda Albania askada di Asaganian, esakising	are are the commercial and a second a second and a second a second and	ecca inclusiva se tipo e e esta vama internativa pitta filolocicio de del

5. dist distinct parient IDs
Guery:
SELECT DISTINCT patient ID FROM patients;
Patient ID
111
112
113
114
115
6. Combine Patient IDs from Patients and
Appointment (UNION)
every:
SELECT Patient ID FROM Patient
UNION SELECT Patient ID FROM Appointments.
SELECT Patient ID FROM Mybiniments:
Patient ID
111
113
N A
115
7- Grosioup Patients based on gender and depeviment
Query;
SOVII
SELECT Department, Grender, COUNT (*) AS
FROM Padients
GIROUP BY Department, Grenden;
Cardiology Hale Total Patients
Neurolay Femele
Orthopedio Hale 1 Pediatrio Female 1
Dormatology Made

8. Find doctors and their department defails GIROUP BY and ORDER BY using QUOY: Soul: SELECT Pactorhame, Dereortment, COUNT (*) AS COUNT motor Morey OTROUP BY Podos Name, Department Docton Name; ORDER BY Dorlandame Deroutment Count Newsology. Dor. Ahmer Dr. Neha permatology Pedianics Dy. Priya 1 On the pectoric On Rajesh Cardiology Dr. Sharma

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31	are and 15 had the
5	PERFORMANCE (5)
5)	RESULT AND ANALYSIS (5)
5	VIVA VOCE (5)
-	AECORD (5)
15	MAL (20)
	The state of the s
25	
1	

Result:
Their the implementation of DUL Commanch using clauses, operators and functions in a writer executed 2 vaces fully.

75 8/25 TASK:3,2	Amonagate	function Cm	ult Row operations)
Aim:	plement Agg	regal Juna	fions
Porocedure:			
1	a Jable n		res
	Sample stee		,
a. write a. observe	greates using	g aggoregate The outro	dunations
EXAMPLE T	ABLE: patien	rls	
Patient ID	Patient Name	Department	BIN Amount
101	aved	Cordio logy	2000
102	gneha	Nevtrelogy	3500
103	Karan	Onthopadius	1800
104	Meena	pediatrics	4000
105	Rohan	Desimatology	
1, count the	with Expl folial number	A	•
FROM Pa	DUNT (+) AS	Total _ Palier	ds
output: Total - Paris		0	
	highest bill	amount	
SELECT MF FROM PO OUTPUT!	tx CBIII AMOUNT) Fients;	As Highest_E	311/
Highest _ Bi			

By Find the average bill de Parients amount Query: Ava (Bill Amount) As Average - HII SELECT FROM Patients: output: Avorage_Bill 2700 bill amount amoung 4) Find the minimum dopoultment Nueralogy patients in query: LIN CBILL Amount) AS Min_Nevo10_BILL SELECT output: Min-Neumo_Bill 3500 5. Find the total bill amount by each depurtment query: Department, SUM (Bill Front) As Total-Bill SELECT Patients FROM GIROUP BY perantment; output: Deportment Total Bill Candiology 2000 Neurolog y 3500 ontho pedies 1500 preadures 4000 permulology bill per department oudered 6. Find the average by avoing e descriding Yevry: SELECT DEpartment, AV Or CBILL Amount) AS AVALBIL FROM Patients OTROUP_BX Department ORDER - BY AVG = BILL DESC.

output:

Avorbill
2000
3500
2500
2003
1500

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EX NO.	3.2
PERFORMANCE (5)	3
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	K
OTAL (20)	M
1314 141111	28825
	(-1

Result: Implimentation of paggragate functions are executed successfully