TASK NO. 3 DML Commands using dauges, operators and functions in Quesies 25/8/23 Aim: To implement DHL Commands using chuses, ofesations and functions in quesies, DATA MANIPULATION LANGUAGE (DML); modific the control congrage CDML) is used to setsieve, insert and modify database information, these commands will be used by all database uses s dusing the soutine operation of the database, let's take a brief look at the basic DML commands, 1. INGERT 2. UPDATE 3. DELETE 1/INSERTINTO; this is used to add secoods into a relation. these One those type of insert introvertion sies which one as Inserting a single record Syntax; Insert INTO Location Hable name7 (field -1, field 2. ... field VALUES (data - 1, data - 2, data - n). Example, 391 Jingest into member values (116; shan; cse; male) insesting a single secord -Member gender depostment membro name female IT Jeni 111 female Jaz 65E 111 female John CS t 113 female BEn (Gf 114 female 115 Ann 696

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2, UPDATE-SET-WHERE: this is used to update the content of a record in a relation, SYNTAX : 39L XIPDATE SOLUTION NAME SET field - name 1= data, field - name 2 = data = 'kums' where & sno=1' 3. DELETE - FROM; this is used to delete all the seconds of a relation but it will retain the structure of that relation, a) DELETE-FROM; this is used to delete all the seconds of relation Syntax; SQL7DELETE FROM xelation-name; Example: SQL 7 DELETE from Std. b) PELETE - Thom - WHERE; this Pg used to delete a selected of ecos d from a relation, Syntax; SQL 7 DELETE FROM & elation-name which E condition Example; 30 L7 D ELETE FROM Student WHERE SNO=2; 5. TRUNCATE; this command will remove the data permanently. But stauctige will not be semoved, Difference between Touncate & Delete By using tourcate command data will be senoved Permanety & will not get back where as by using delete commond and data, SAMPLE QUESIES and outling; 1. Retokue member name and with letter 'n' and member no between 111 and 115, Onesh ! Stlert first-name, last-name, salary FROM employees where first-name like "10m" _2, list books where page count between 700 and 800between 700 and 800 - between clause, and operator query, select* form book where page count between 700 and 800;

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thes the to to so who has minimum number of Mercaint AMOUNTS PRODUÝ. Select min (type (aunt) from booler u. Find the remosts is sue date greater than as equal to 12.72.93 18.39 Select & from bossoned where fogue date 7=12023-02-07; is t the mendons, but the same membris one listed ones, slebtt men distrinct membro from member: -26, combine the seconds of member and 60014 relation-union QUESY 1 select membro from member union select membro from ->7. Geoutby the member number based on that genders and de Pastment, gread i SELECT membro from member Graup By gender, department, find the authors and their publication details using grouply and orderby chases, query. SELECT Outhors publisher, (ount (15) 200 fr By authors, Publisher order by author RESULT :the task to implement the DML commands are oxelited stilless

fully,

find the seconds who has minimum number of hyerount Agregate quesy. select min (Page (aunt) from bools. u. find the remads is sue date greater than or equal to 07-02-83 guesy. select & from borrowed where Poguedate 7=12023-02-07; is t the membro, but the same membro one listed ones. guesy; shelett men distoinct membro from member; >6. Combine the socords of member and book relation-union Quesy ! select membro from member union select membro from 7, Gloupby the member number based on their gender and de Pastment, Quesy ! SELECT Membro From Member Graup By gender, de Parsmont, find the authors and their publication details using grouply and orderby charges, query; SELECT authors publisher, (ount (15) 200 Phone By authors, publisher asder by authors

the tack to implement the DML commands are one the Bulless

TASK: + 3,2 AGGREGIATE FUNCTIONS (MULTIPOLI) OPERATION S 9/08/25

Aîm :-

To study and implement aggregate function (count (), sum (), AVG(), MIN(), MAX()) on a sample student database,

PROCEDURE

1. Eseate a table named students,

2. Insert sample records,

3. write quesies using aggregate functions. 4. observe and second the output,

COMMANDS WITH EXPLANMED 1) count the total number of students

S ELECT COUNT (*) AS Total-Students

from students. Explanation:

· COUNT (*) counts how many sows (students) are in the table · AS Total - students gives a uses - Posendly column name.

2) find the highest masks obtained by a student

SELECT HAX (MOSKS) AS Highest-MOSK FROM Student. Explanation;

· Max (Masks) returns the maximum value in the masks column, · As this tells us the top gaser's mark,

3, find the average masks of students SELECT AUG (Nasks) AS AVERAGE - Mark fhom Students,

Explanation;

· AVG (Masks) Calculates the mean laverage) of all student max 149.

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4) find the minimum mask among students in the ECE departement SELECT MIN (MOSKS) Agrin-Coe Mosk from Students WHERE DEPOSTMENT : 'ECE'; Explanantion; · MIN (HOWKS) finds the lowest mosk, · WHERE perastment = 'ECE'-segisticts the calculation only to ECE Students. 5, find the total masks sassed by students in each department SELECT Department, SUM (Marks) AS Avg - Masks FROM Students 61 hour By Depastment: Explanation; · Sum (mask 9) add 9 up mosks, · GIROUP By De Pastment en suses that the total is calculated for each department selarately, 6. Find the average masks per department, ordered by average mas 149 des centing 3 ELECT DEPOSTMENT, AVG (MESS) AS AVg-MASKS FROM Students GILLOUP BY DEPOSEMENT OMER BY AVJ-MOOKS DESC! explanation; · Aug (Hooks) gives the average per department · GROUP By De Postment groups students by their de Partment · ORDER BY AUG - MOOKS DESC GOSTS - COST with the highest awage come this Result: thus the soll commands executed successfully a laborca maria nomant gystem,