Query

CREATE TABLE trainee (S_No int primary key, Name varchar(20), Designation varchar(20), Branch varchar(20));

Alter table trainee Add Salary int;

Alter table trainee Modify designation varchar(10);

Desc trainee;

create table networkers like trainee; insert into networkers select * from trainee;

delete from trainee where Name='Sopna';

drop trainee;

5_No	Name	Designation	Branch	Salary
1	Martin	Manager	Chemai	MARK
3	Hunter	Assisstant	Trichy	-
MILL	MIRA	MARK.	MARK.	MILL.

Query

CREATE TABLE trainee (5_No int primary key, Name varchar(20), Designation varchar(20), Branch varchar(20));

Alter table trainee Add Salary int;

Alter table trainee Modify designation varchar(10);

Desc trainee;

create table networkers like trainee; insert into networkers select * from trainee;

delete from trainee where Name='Sopna';

drop trainee;

	5_No	Name	Designation	Branch	Salary
٠	1	Martin	Manager	Chennai	MILL
	3	Hunter	Assisstant	Trichy	PROFILE
	MALE	HULL	MALE.	HULL	MALL

EXP 23 Query: Delimiter // CREATE PROCEDURE fact(IN x INT) DECLARE result INT; DECLARE | INT; SET result = 1; SET i = 1; WHILE i <= x DO SET result = result * i; SET i = i + 1; END WHILE; SELECT x AS Number, result as Factorial; END// Number Factorial **>** 5 120

Query

CREATE TABLE student (Reg_No int primary key, Stu_Name varchar(20), Department varchar(20), DBMS_Mark varchar(20));

create view sainew as select * from student;

insert into sainew select * from student;

select min(DBMS_Mark) from student;

select * from student order by stu_Name;

select Stu_Name from student where Department='Electronics' group by Department;

select * from student where Department='Electronics';

select * from student where Stu_Name like "%dy";

select * from student where DBMS_Mark>50;

drop student;

	Reg_No	Stu_Name	Department	DBMS_Mark
٠	CSE0024	Sandy	Computer_Science	86
	ECE0023	Reddy	Electronics	56
	ECE0040	Hajira	Electronics	40
	MALL	MIALL	MALL	MAL

Query

CREATE TABLE workers (S_No int, Name varchar(20), Designation varchar(20), Branch varchar(20));

CREATE TABLE employee (S_No int, Name varchar(20), Designation varchar(20), Branch varchar(20));

ALTER TABLE workers add constraint link foreign key(S_No) references employee(S_No);

	Field	Type	NA	Key	Default	Extra
٠	S_No	int	YES	MUL	PROPER	
	Name	varchar(20)	YES		PRINCIPLE.	
	Designation	varchar(20)	YES		PROFILE	
	Branch	varchar(20)	YES		MULL	

Query

CREATE TABLE bank (S_No int primary key, Cust_Name varchar(20), Acc_No int, Balance int, Cus_Branch varchar(20));

select * from bank where Cust_Name='Ramesh';

Select * from bank where Balance>15000;

select * from bank where Balance between 1000 and 100000;

update bank

set

Cus_Branch='Pon' where Cust_Name='Samran';

select max(Balance) from bank;

drop table bank;

	5_No	Cust_Name	Acc_No	Balance	Cus_Branch
۰	1	Ramesh	12378	100000	Adyar
	2	Samran	12367	152500	Pon
	3	Hari	12345	250000	Anna Salai
٠	MALE	PERLE	PRINCE.	HILLS	MIRA

Query

CREATE TABLE workers (S_No int primary key, Name varchar(20), Designation varchar(20), Branch varchar(20));

alter table workers add Salary int;

alter table workers modify Name varchar(10);

desc workers;

create table trainee like workers; insert into trainee select * from workers; drop table workers;

	S_No	Name	Designation	Branch	Salary
•	1	Martin	Manager	Chennai	MALE
	3	Hunter	Assisstant	Trichy	MAL
	-	made.	HERE	STATE OF THE PARTY	HILLS.

EXP 18 Query: **DELIMITER \$\$** CREATE PROCEDURE GetCustomerLevel(IN pCustomerNumber INT, OUT pCustomerLevel VARCHAR(20)) BEGIN **DECLARE credit DECIMAL DEFAULT 0;** SELECT creditLimit INTO credit FROM customers WHERE customerNumber = pCustomerNumber; IF credit > 50000 THEN SET pCustomerLevel = 'PLATINUM'; ELSEIF credit <= 50000 AND credit > 10000 THEN SET pCustomerLevel = 'GOLD'; ELSE SET pCustomerLevel = 'SILVER'; END IF; END \$\$ DELIMITER; call GetCustomerLevel(211,@level); select @level Clevel PLATINUM

EXP 17 Query: **DELIMITER \$\$** CREATE PROCEDURE build_email_list (INOUT email_list varchar(4000)) BEGIN DECLARE v_finished INTEGER DEFAULT 0; DECLARE v_email varchar(100) DEFAULT ""; DECIARE email_cursor CURSOR FOR SELECT email FROM employees; DECLARE CONTINUE HANDLER FOR NOT FOUND SET v_finished = 1; OPEN email_cursor; get_email: LOOP FETCH email_cursor INTO v_email; IF v_finished = 1 THEN LEAVE get_email; END IF; SET email_list = CONCAT(v_email,";",email_list); END LOOP get_email; CLOSE email_cursor; END\$\$ DELIMITER; SET @email_list = ""; CALL build_email_list(@email_list); SELECT @email_list; @emai_lst stony @marvel.com;kdark @dccomics.com;

EXP 16 Query: DELIMITER \$\$ CREATE PROCEDURE GetCustomerLevel(IN pCustomerNumber INT, OUT pCustomerLevel VARCHAR(20)) BEGIN **DECLARE credit DECIMAL DEFAULT 0;** SELECT creditLimit INTO credit FROM customers WHERE customerNumber = pCustomerNumber; IF credit > 50000 THEN SET pCustomerLevel = 'PLATINUM'; ELSEIF credit <= 50000 AND credit > 10000 THEN SET pCustomerLevel = 'GOLD'; ELSE SET pCustomerLevel = 'SILVER'; END IF; END \$\$ DELIMITER; call GetCustomerLevel(211,@level); select @level Clevel PLATINUM

EXP 15 Query CREATE PROCEDURE student_info() SELECT * FROM student_info(); **psql* CREATE PROMEDURE Student_info() -> select * from student_tafo; query OK, 0 rows affected (0.00 sec) nysql> call student_info(); stuid | name | area | subject | 781 | raj | chennal | dbms | 282 | rahul | hyderabad | ooad | 781 | rahi | numbai | java | 284 | vtkas | kocht | python | rows in set (0.89 sec) Query OK, 0 rows affected (0.00 sec)

EXP 14 Query: DELIMITER // CREATE FUNCTION IncomeLevel (monthly_value INT) returns varchar(20) DECLARE income_level varchar(20); CASE monthly_value WHEN 4000 THEN SET income_level = 'Low Income'; WHEN 5000 THEN SET income_level = 'Avg Income'; ELSE SET income_level = 'High Income'; END CASE; RETURN income_level; end; // INCOMELEVEL (5300) High Income

EXP 13 Query: CREATE PROCEDURE test() BEGIN DECLARE x INT; DECLARE str VARCHAR(255); set x = 1; set str = "; WHILE x <= 5 DO SET str = CONCAT(str, x, ','); set x = x + 1END WHILE; select str; end

Query

```
import mysql.connector as mc
mycon =
mc.connect(user='root',host='localhost',passwd='saipavan55',database='exp',auth_plugin='mysql_na
tive_password')
if mycon.is_connected():
    print("Connection Successful!")
else:
    print("Connetion Failed!")
>>>
=== RESTART: C:/Users/saipa/AppData/Local/Programs/Python/Python36/khjh.py ===
Connection Successful!
>>>
```

Query:

DELIMITER // **CREATE TRIGGER checks** before update on employee for each row insert into employee_audit select * from employee end//

update employee set Name='Sai teja' where ID=3;

	ID	Name	Email
,	1	Sai teja	tmsaipavan@gmail.com
	2	Komal	komal@gmail.com
	3	Sai	sai@gmail.com

Query

DELIMITER &&
CREATE PROCEDURE display()
BEGIN
select * from employee;
END &&
DELIMITER;

call display();

	ID	Name	Email
١	1	Sai teja	tmsaipavan @gmail.com
	2	Komal	komal@gmail.com
	3	Sai teja	sai@gmail.com
	4	Akhi	aichil@gmail.com
	5	Reenasri	reena Egmai.com
	6	Gayatri	gayatri@gmail.com
	7	Payan sai	pavanm@gmail.com
	8	Prakash	prakash@gmail.com
	9	Yogesh	yogesh@gmail.com
	10	Siddharth	siddharth@gmail.com

Query:

DELIMITER &&

CREATE PROCEDURE new()

BEGIN

select * from employee where Salary>20000;

END &&

DELIMITER;

	S_No	Name	Department	Salary
•	1	Sai payan	Chennai	100000
	3	Aithi	Kerela	100000

Query:

Delimiter //

CREATE PROCEDURE fact(IN x INT)

BEGIN

DECLARE result INT;

DECLARE | INT;

SET result = 1;

SET i = 1;

WHILE i <= x DO

SET result = result * i;

SET i = i + 1;

END WHILE;

SELECT x AS Number, result as Factorial;

END//

	Number	Factorial
•	5	120

Indexing & View Query create view tab as select S_No,Name,Designation,Branch from employee; insert into tab values (1,'Sai pavan','Manager','Chennai'), (2,'Komal','Manager','Chennal'); S_No Name Designation Branch 1 Sai pavan Manager Chennai 2 Komal Manager Chennai

Subquery use exp; select Name from employee where Designation='Manager' and Branch='Chennal'; Name
Query use exp; select Name from employee where Designation='Manager' and Branch='Chennal'; Name Sal payan
Query use exp; select Name from employee where Designation='Manager' and Branch='Chennal'; Name Sal payan
use exp; select Name from employee where Designation='Manager' and Branch='Chennal'; Name Sal payan
select Name from employee where Designation='Manager' and Branch='Chennal'; Name Soi payan
Name > Sai payan
▶ Sai pavan
Sa pavan Konal

SELECT WITH VARIOUS CLAUSES

Select with Group by Command

Query:

use exp;

select * from project group by P_Price;

_	S_No	P_Name	Coordinators	P_Price	Location
,	1	Sai pavan	Komal	1000	Chennal
	2	Komal	Sai Pavan	2000	Kerela
	3	Akth	Sai Pavan	3000	Hyderabad
	HEAL	MAL.	MULL	MAL	MAL

Select with Having Command

Query:

use exp;

select * from project having P_Price=1000;

	S_No	P_Name	Coordinators	P_Price	Location
>	1	Sai pavan	Komal	1000	Chennal
1.	MALE	Sai pavan	MALL	MAL.	MAL.

Select with Order By Command

Query

use exp;

select * from project order by P_Price;

	S_No	P_Name	Coordinators	P_Price	Location
,	1	Sai pavan	Komal	1000	Chennai
	2	Komal	Sai Pavan	2000	Kerela
	3	Aithi	Sai Pavan	3000	Hyderabad
	MICHAE	MAL	MALL	MULL	HULL

DDL COMMANDS WITH CONSTRAINTS

Select with Where Clause Command

Query:

use exp;

select * from bank where Acc_No=123456;

Ī		S_No	Cust_Name	Acc_No	Balance	Cas_Branch
Ì	•	1	Sai pavan	123456	1000000	Chennai

Select with Between Clause Command

Query:

use exp

select * from bank where Balance between 10000 and 100000;

	S_No	Cust_Name	Acc_No	Balance	Cas_Branch
٠	2	Komal	1234563	100000	Andrra Pradesh
	3	Akhi	1236432	10000	Kerela

Select with In Command

Query:

use exp;

select * from bank where Balance in (10000,100000);

	S_No	Cust_Name	Acc_No	Balance	Cas_Branch
•	2	Komal	1234563	100000	Andrra Pradesh
	3	Akthi	1236432	10000	Kerela

Select with Pattern matching Command

Query:

use exp;

select * from bank where Balance=10000;

	S_No	Cust_Name	Acc_No	Balance	Cas_Branch
•	3	Akhil	1236432	10000	Kerela

DCL and TCL Commands

Savepoint Command

use exp; Insert Into Book values (1,"Wings of fire', 'Sai pavan', 1000, 'Surat'), (2,'Moon', 'Komal', 1500, 'Prashanth'), (3,'Charndrayan','Akhil',2000,'Ramesh'), (4,'The sun','Mithil',3000,'Surya'), (5,'The Mars','Puma',2700,'Srinu'); SAVEPOINT new;

Rollback command

use exp; update Book set Author='Sai teja' where Author='Sai pavan'; rollback;

Grant command

Use exp; Grant select,update on bank to sai;

Revoke command

Use exp, Revoke insert,select on bank from sai;

Commit command

Use exp; Insert into Book Values (5,'The Mars','Puma',2700,'Srinu'); Commit;

DDL COMMANDS WITH CONSTRAINTS

Add Primary Key Command

Query:

alter table employee add primary key(S_No);

Field	Type	Null	Key	Default	Extra
S_No	int	NO	PRI	HULL	
Name	char(1)	YES		MULL	
Designation_Branch	char(1)	YES		PRINCE	
Phone_No	int	YES.		PRINCE	
Address	char(1)	YES		MULL	

Add Foreign Key Command

Query:

alter table workers add constraint link foreign key(S_No)

references employee(S_No);

	Field	Type	Null	Key	Default	Extra
٠	S_No	int	YES	MUL	MARKE	
	Name	char(1)	YES		MALL	
	Designation_Branch	char(1)	YES		MALL	
	Phone_No	int	YES		MINUS.	
	Address	char(1)	YES		MARLE:	

Add Unique Command

Query:

alter table employee add unique (name);

	Field	Type	Null	Key	Default	Extra
٠	S_No	int	NO	PRI	SPINEL.	
	Name	char(1)	YES	UNI	SHOULD.	
	Designation_Branch	char(1)	YES		HUGG	
	Phone_No	int	YES		PERSONAL PROPERTY.	
	Address	char(1)	YES		HILL	

Check Command

Query:

use exp; CREATE TABLE Bank2 { ID int not null, Name char,

DML COMMANDS

Insert Command

Query:

use exp;

insert into bank

values

(1,'Saipavan',10065892,10000000,'Chennai',9962355559),

(2, 'Komal', 10065886, 100000, 'Andhra Pradesh', 9840310788),

(3,'Akhil',10007523,100000,'Gujarat',9087654232),

(4,'Lohit',10008376,100000,'Madhya pradesh',9087575733),

(5, 'Srinivas', 10078392, 100020, 'Kerela', 9087654521);

Select Command

Query:

Use exp;

Select * from bank;

S_No	Cust_Name	Acc_No	Balance	Cus_Branch	P_No
1	Saipavan	10065892	1000000	Chennai	9962355559
2	Komal	10065886	100000	Andhra Pradesh	9840310788
3	Akhil	10007523	100000	Gujarat	9087654232
4	Lohit	10008376	100000	Madhya pradesh	9087575733
5	Srinivas	10078392	100020	Kerela	9087654521

Update Command

Query:

use exp;

update bank

set

cus_branch='Pondicherry' where S_No=2;

S_No	Cust_Name	Acc_No	Balance	Cus_Branch	P_No
1	Saipavan	10065892	1000000	Chennai	9962355559
2	Komal	10065886	100000	Pondicherry	9840310788
3	Akhil	10007523	100000	Gujarat	9087654232
4	Lohit	10008376	100000	Madhya pradesh	9087575733
5	Srinivas	10078392	100020	Kerela	9087654521

Delete Command

use exp;

delete from bank where Cust_Name='Komal';

DDL COMMANDS

Create Command

Query:

use Exp; create table Workers (S_No int primary key, Name char not null, Designation char not null, Branch char not null,

Phone_Number int unique,

Address char not null,

Years_of_Experience int not null);

Output:

	Field	Type	Null	Key	Default	Extra
۰	S No	int	NO	PRI	HARLE	
	Name	char(1)	NO		HARLE	
	Designation	char(1)	NO		HILECO.	
	Branch	char(1)	(1) NO		HURCE	
	Phone_Number	int	YES	UNI	PHINE	
	Address	char(1)	NO.		PHINCE	
	Years of Experience	int	NO		PHILE	

Alter Command

Query:

use exp; alter table workers add (Alternate_PNo int not null);

Output:

	Field	Type	Null	Key	Default	Extra
•	S_No	int	NO	PRI	MOLE MOLE	
	Name	char(1)	NO			
	Designation	char(1)	NO			
	Branch	char(1)	NO		HULL	
	Phone_Number	int	YES	UNE	HESTLA	
	Address	char(1)	NO.		HILL	
	Years_of_Experience	int	NO		HEELE !	
	Alternate_PNo	int	NO		HULL	