CREATE TABLE songs(song\_name varchar(20), singer varchar(20), lyricist varchar(20), composer varchar(20), company varchar(20),gender varchar(20), duration long, movie varchar(20));

SELECT \* FROM songs;

DESC songs;

ALTER TABLE songs ADD COLUMN hero varchar(20);

ALTER TABLE songs ADD COLUMN heroin varchar(20);

CREATE TABLE food(food\_name varchar(20), price bigint, spicy boolean, chef varchar(20), color varchar(20), food\_type varchar(20),

no\_of\_ingredients varchar(20), restaurant varchar(20));

SELECT \* FROM food;

DESC food;

ALTER TABLE food ADD COLUMN rating int;

ALTER TABLE food ADD COLUMN region varchar(20);

CREATE TABLE address(location\_name varchar(20), area varchar(20), street varchar(20), door\_number bigint, house\_no bigint,

pincode bigint,city varchar(20));

SELECT \* FROM address;

DESC address;

ALTER TABLE address ADD COLUMN state varchar(20);

ALTER TABLE address ADD COLUMN country varchar(20);

ALTER TABLE address ADD COLUMN person\_name varchar(20);

CREATE TABLE mobile(brand varchar(20), cost bigint, ram int, mobile\_storage int, battery varchar(20), color varchar(20),

version bigint, model varchar(20));

SELECT \* FROM mobile;

DESC mobile;

ALTER TABLE mobile ADD COLUMN region varchar(20);

ALTER TABLE mobile ADD COLUMN display int;

ALTER TABLE mobile MODIFY COLUMN display varchar(20);

ALTER TABLE mobile MODIFY COLUMN ram bigint;

ALTER TABLE mobile MODIFY COLUMN mobile\_storage bigint;

CREATE TABLE laptop(brand varchar(20), price bigint, warranty int, ram varchar(4), lap\_storage varchar(10), graphic\_card varchar(20),

operating\_system varchar(20), model\_name varchar(20));

SELECT \* FROM laptop;

DESC laptop;

ALTER TABLE laptop ADD COLUMN color varchar(20);

ALTER TABLE laptop ADD COLUMN processor varchar(20);

INSERT INTO songs VALUES('Khushi', 'Hasheem', 'Shiva\_Nirvana','Hasheem\_Abdul','Saregama\_Telugu','Male','3:30','Khusi','Vijay\_Devarakonda','Samantha');

INSERT INTO songs VALUES('Vellake', 'Yazin', 'Vinay\_Shanmukh','BharattSurabh','Vinay\_Shanmukh','Male','3:38','Album','Sugi\_Vijay','Alekhya\_Harika');

INSERT INTO songs VALUES('O\_Rendu\_Prema', 'Sreeram\_Chandra', 'Ananta\_Sriram','Vijay\_Bulganin','Sony\_Music','Male','5:14','Baby','Anand\_Devarakonda','Vaishnavi\_Chaitanya');

INSERT INTO songs VALUES('Neeve', 'G\_V\_Prakash', 'Ananta\_Sriram','G\_V\_Prakash\_Kumar','SVCC','Male','4:45','Darling','Prabhas','Kajal\_Aggarwal');

INSERT INTO songs VALUES('Sweety', 'Dinesh', 'Varikuppala\_Yadagiri','Thaman\_S','Lahari','Male','4:30','Race\_Gurram','Allu\_Arjun','Shruti\_Hassan');

INSERT INTO songs VALUES('Telusa\_Telusa', 'Sammera', 'Srimani','Thaman\_S','T Series','Female','4:25','Sarrainodu','Allu\_Arjun','Rakul\_Preet');

INSERT INTO songs VALUES('Priyatama\_Priyatama', 'Chinmay\_Sripada', 'Chaitanya\_Prasad','Gopi\_Sundar','Aditya\_Music','Feale','04:06','Majili','Naga\_Chaitanya','Samantha');

INSERT INTO songs VALUES('Nannaku\_Prematho', 'Sagar', 'DSP','DSP','Junglee\_Music','Male','3:09','Nannaku\_Prematho','NTR','Rakul');

INSERT INTO songs VALUES('Undipo', 'Ramya\_Behera', 'Bhaskar\_Batla','Mani\_Sharma','Zee\_Music','Feale','5:03','Ismart\_Shankar','Ram\_Pothineni','Nidhi\_Aggarwal');

INSERT INTO songs VALUES('Kopanga\_Kopanga', 'Arman\_Malik', 'Srimani','Thaman\_S','SVCC','Male','4:34','Mr.\_Majnu','Akhil\_Akkineni','Nidhi\_Aggarwal');

TRUNCATE TABLE mobile;

INSERT INTO food VALUES('vadapav', 30, true,'mornito', 'brown', 'snack', 3, 'Food\_Mart',4,'India');

INSERT INTO food VALUES('Gobi', 200, false,'Sharif', 'red', 'starters', 6, 'chit\_chat',4,'India');

INSERT INTO food VALUES('Biryani', 300, true,'salim', 'green', 'starter', 5, 'street\_food',5,'India');

INSERT INTO food VALUES('EggRice', 40, true,'Dhruva', 'Yellow', 'Rice ', 7, 'Egg\_Recipie',4,'India');

INSERT INTO food VALUES('Maggi', 80, false,'moganzo', 'yellow', 'maggi', 4, 'Noodles\_adda',5,'India');

INSERT INTO food VALUES('Pizza', 350, true,'Vensezo', 'Mixed\_Color', 'Snack', 8, 'Pizza\_Hut',4,'Italy');

INSERT INTO food VALUES('Hot\_dog', 400, true,'Park\_moon', 'cream', 'starter', 5, 'Food\_Mania',4,'Korea');

INSERT INTO food VALUES('Pulav', 50, true,'Shiva', 'Green', 'Rice', 15, 'Desi\_Kitchen',5,'India');

INSERT INTO food VALUES('French\_fries', 120, false,'Kelvin', 'Gold', 'snack', 3, 'Haushis\_food',4,'USA');

TRUNCATE TABLE address;

INSERT INTO address VALUES('1st\_Main','Mico\_Layout','C',234,112,560077,'Banglore','Karnataka','India','Nivan');

INSERT INTO address VALUES('2nd\_Main','Vidyanagar','1st Cross',123,86,577004,'Davangere','Karnataka','India','Shamina');

INSERT INTO address VALUES('4th\_Main','PJ\_Extension','AVK\_Road',154,452,577002,'Davangere','Karnataka','India','Aditi');

INSERT INTO address VALUES('Mcc\_B\_Block','Vidyanagara','UBDT\_Road',564,272,577004,'Davangere','Karnataka','India','Madav');

INSERT INTO address VALUES('6th\_main','Begampet','3rd\_Block',764,734,500238,'Hyderabad','Telanagana','India','Venkatesh');

INSERT INTO address VALUES('donut\_steet','residental','johns\_villa',423,522,25344,'Houseton','Texas','USA','Mathew');

INSERT INTO address VALUES('2nd\_cross','Vaibhavnagar','Church\_Road',152,253,827263,'Pune','Maharashtra','India','Jayansh');

INSERT INTO address VALUES('Dalbar\_mart','Stepen\_colony','main\_road',142,77,387872,'Vijag','Andrapradesh','India','Driti');

INSERT INTO address VALUES('Doolar\_street','Mehendi\_patnam','ring\_road',154,262,500353,'Hyderabad','Telangana','India','raphi');

INSERT INTO address VALUES('Forum\_mall','Konana\_kunte','Metro\_Station',72,82,566035,'Banglore','Karnataka','India','Peter');

INSERT INTO mobile VALUES('RedmI',10499,6,128,'5000mah','balck','11','MZBOEQMIN','india','6');

INSERT INTO mobile VALUES('One\_Pus\_Nord',16947,6,128,'5000mah','blue','10','CPH2381','india','7');

INSERT INTO mobile VALUES('Pococ55',7799,6,128,'5000mah','cool\_blue','12','MZBODDTIN','india','6');

INSERT INTO mobile VALUES('vivot1pro',23999,8,128,'4600mah','balck','13','V2321','india','6');

INSERT INTO mobile VALUES('iphone12',40999,64,64,'2815mah','blue','12','MGJ83HN/A','USA','6');

INSERT INTO mobile VALUES('Samsung\_galaxy\_f13',8199,4,64,'6000mah','grey','12','SM-E135FLBDINS','india','5');

INSERT INTO mobile VALUES('Motorola\_G54\_5G',16999,12,256,'6000mah','Mintgreen','13','PAYW0005IN','india','6');

INSERT INTO mobile VALUES('infinix\_hot',7499,4,64,'5000mah','Galcier\_blue','12','X669C','india','6');

INSERT INTO mobile VALUES('Realme',19999,8,256,'5000mah','Glory\_balck','12','RMX3780','india','6');

INSERT INTO mobile VALUES('OppoA58',13999,6,128,'5000mah','Glwong\_balck','13','CPH2577','india','6');

INSERT INTO laptop VALUES('ASUS\_TUF', 53990,1,4,'512gb','GDDR6','Windows','GamingF15','balck','intel\_core\_i5');

INSERT INTO laptop VALUES('DELL', 37450,1,8,'512gb','NONE','Windows','Inspiron3520','carbonbalck','intel\_core\_i3');

INSERT INTO laptop VALUES('Wings\_Nuvobook', 26990,1,8,'256gb','NONE','Windows','WL-Nuvobook\_S1-GRN','Grren','intel\_core\_i3');

INSERT INTO laptop VALUES('DELLG15', 70990,1,16,'512gb','NVIDA','Windows','G15-5520','GRAY','intel\_core\_i5');

INSERT INTO laptop VALUES('lENEVO', 49990,1,16,'512gb','Iris','Windows','V15\_G3\_IAP','iron\_gray','intel\_core\_i7');

INSERT INTO laptop VALUES('HP', 19860,1,4,'256gb','NONE','Windows','255','Jetbalck','3050U');

INSERT INTO laptop VALUES('HP\_Rayzen', 33490,1,8,'512gb','AMD\_Radeon\_AMD','Windows','15s-eq1580AU','silver','AMD');

INSERT INTO laptop VALUES('Acer', 54990,1,16,'512gb','NVIDIA','Windows','A715-76G','Charcol\_balck','intel\_core\_i5');

INSERT INTO laptop VALUES('Lenevo\_core\_7', 59990,1,16,'512gb','NONE','Windows','Iris','Mineral\_gray','intel\_core\_i7');

INSERT INTO laptop VALUES('HP\_Pavillion', 69990,1,16,'1Tb','Iris','Windows','14-dv2153TU','Natural\_silver','intel\_core\_i5');

ALTER TABLE laptop RENAME COLUMN brand TO laptop\_brand;

ALTER TABLE laptop RENAME COLUMN ram TO laptop\_ram;

ALTER TABLE laptop RENAME COLUMN price TO laptop\_price;

SELECT \* FROM laptop;

UPDATE laptop SET warranty=3 WHERE laptop\_brand='ASUS\_TUF';

UPDATE laptop SET laptop\_price=39990,operatin\_system='linux' where laptop\_brand='DELLG15';

UPDATE laptop SET laptop\_price=70000,color='blue' WHERE laptop\_brand='HP\_Pavillion';

UPDATE laptop SET laptop\_price=30000, warranty=2,color='red' WHERE laptop\_brand='Wings\_Nuvobook';

UPDATE laptop SET warranty=3, lap\_storage='1Tb' WHERE laptop\_brand='Acer';

DELETE FROM laptop WHERE laptop\_brand='Wings\_Nuvobook';

SELECT \* FROM laptop;

CREATE TABLE product(id int, p\_name varchar(20), p\_company varchar(20), p\_batch varchar(10), price bigint);

SELECT \* FROM product;

INSERT INTO product values(1,'Biscuit','Parle','p1',100),(2,'GoodDay','Britania','p2',150),

(3,'Bourbon','Parle', 'p3',200),(4,'Camera','Canon','p4', 20000),(5,'Biscuit','Parle','p5',2000),(6,'GoodDay','Nestle','p6',3000),(7,'Fan','Usha', 'p7', 5000);

SELECT \* FROM product where p\_name = 'Biscuit';

AND:

COND1 COND2 RES

TRUE FALSE FALSE

FALSE TRUE FALSE

FALSE FALSE FALSE

TRUE TRUE TRUE

SELECT \* FROM product where p\_name = 'Biscuit';

AND id = 90;

SELECT \* FROM product where p\_company = 'Parle' AND

p\_name = 'Biscuit' AND id = 1;

OR:

COND1 COND2 RES

TRUE FALSE TRUE

FALSE TRUE TRUE

FALSE FALSE FALSE

TRUE TRUE TRUE

SELECT \* FROM laptop;

SELECT \* FROM laptop where laptop\_brand = 'DELLG1599'

OR graphic\_card = 'NON' OR operating\_system = 'Windows';

IN:

SELECT \* FROM product;

SELECT \* FROM product where id = 1 or id = 30 or id = 5 or id = 6;

IN:

SELECT \* FROM product where id IN(1,30,5,6,'Biscuit');

SELECT \* FROM product where p\_name IN('GoodDay','Camera','Fan');

NOTIN:

SELECT \* FROM product;

SELECT \* FROM product where id NOT IN(1,2);

SELECT \* FROM product where p\_batch not in('p4','p5');

UPDATE product set p\_batch = 'P10' where p\_name = 'Biscuit' and id = 5;

SELECT \* FROM mobile;

SELECT \* FROM mobile where brand='redmi' and ram=6;

SELECT \* FROM mobile where brand='Pococ55' or ram=6;

SELECT \* FROM mobile where brand IN('iphone12','Realme','OppoA58');

SELECT \* FROM mobile where ram NOT IN(64,6);

UPDATE mobile SET color='mild\_black' where brand='vivot1pro' AND model='V2321';

INSERT INTO mobile VALUES('Realme1',19999,8,256,'5000mah','balck','12','RMX3780','india','6');

DELETE FROM mobile WHERE brand='Realme1' and color='balck';

SELECT \* FROM laptop;

SELECT \* FROM laptop where laptop\_brand Like 'D%';

select \* from product;

Between:

SELECT \* FROM product where id between 2 AND 5;

SELECT \* FROM product where p\_name between 'A' and 'G';

SELECT \* FROM product where id not between 2 and 4;

LIKE: pattern matching

%: Will match any string any length;

SELECT \* FROM product where p\_name LIKE 'A%';

SELECT \* FROM mobile where brand Like 'O%P%A%';

ORDER BY:

SELECT \* FROM product order by id;

SELECT \* FROM product order by id desc;

SELECT DISTINCT FROM WHERE GROUP BY HAVING ORDER BY;

DISTINCT:

SELECT \* from product;

INSERT INTO product values(8,'Biscuit','Parle','p8',80),

(9,'Camera','Canon','P9',39999),

(10,'BourBon','Nestle', 'P10',300);

SELECT DISTINCT(p\_name) from product;

SELECT DISTINCT(p\_company) from product;

INSTR: INstring

'BANGALORE'

INSTR(STRING, position of character);

SELECT INSTR('BANGALORE', 'o');

SELECT INSTR('BANGALOREABABABAB','B');

SELECT p\_name,INSTR(p\_name,'a') from product;

ALIAS:

SELECT INSTR(p\_company,'n') as data from product;

SELECT p.p\_name from product p;

SUBSTR:

'XWORKZODC'

ORKZ

SUBSTR(STRING, startposition, no of characters to return);

SELECT SUBSTR('Xworkzodc', 3, 4);

'NEWZEALAND'

SELECT SUBSTR('NEWZEALAND', 7,4);

SELECT \* from product;

SELECT p\_name,SUBSTR(p\_name, 3, 6) from product;

SELECT SUBSTR('FAN', 4 , 6);

TASK:

CREATE 2 TABLES WITH 10 COLUMNS (id mandatory)

INSERT 20 DATA FOR EACH TABLE.

AND, OR, IN, NOT IN, BETWEEN, NOT BETWEEN, LIKE,

ORDER BY, INSTR, SUBSTR,DISTINCT, ALIAS

OLYMPIC\_GAMES --- Table 1

AIRLINES ----- Table 2.

ALTER TABLE table\_name ADD Column column\_name datatype;

ALTER TABLE table\_name MODIFY COLUMN column\_name datatype;

ALTER TABLE table\_name DROP COLUMN column\_name;

ALTER TABLE table\_name RENAME COLUMN column\_name TO new\_column\_name;

INSERT INTO table\_name (COLUMNNAME, COLNAME) VALUES (DATA1, DATA2,.....);