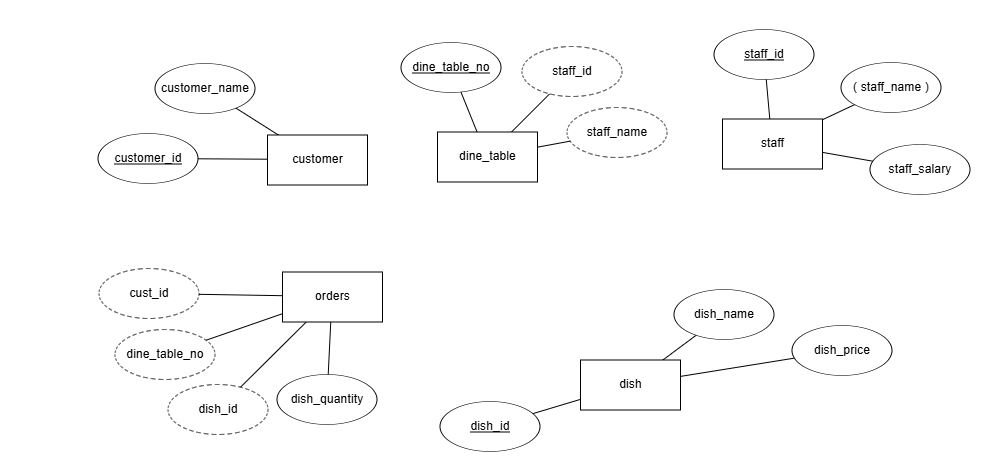
MySQL Task - 1

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**Q. Create MySQL Database of your choice which include 4-5 tables**

Schema:



CREATE DATABASE Restaurant;

USE Restaurant;

CREATE TABLE customer (

cust\_id int,

cust\_name varchar(20)

);

CREATE TABLE dine\_table(

dine\_table\_no int,

staff\_id int

);

CREATE TABLE staff (

staff\_id int,

staff\_name varchar(20)

);

CREATE TABLE dish (

dish\_id int,

dish\_name varchar(20),

dish\_price int

);

CREATE TABLE orders (

cust\_id int,

dine\_table\_no int,

dish\_id int,

dish\_quantity int

);

**Q. Add primary key and foreign key constrains.**

ALTER TABLE customer

ADD PRIMARY KEY (cust\_id);

ALTER TABLE dine\_table

ADD PRIMARY KEY (dine\_table\_no);

ALTER TABLE dish

ADD PRIMARY KEY (dish\_id);

ALTER TABLE orders

ADD FOREIGN KEY (customer\_id) REFERENCES customer (customer\_id);

ALTER TABLE orders

ADD FOREIGN KEY (dine\_table\_no) REFERENCES dine\_table (dine\_table\_no);

ALTER TABLE orders

ADD FOREIGN KEY (dish\_id) REFERENCES dish (dish\_id);

**Q. Add composite primary key to any one of your table**

ALTER TABLE staff

ADD PRIMARY KEY (staff\_id, staff\_name);

**Foreign key referencing composite primary key:**

ALTER TABLE dine\_table

ADD COLUMN

staff\_name varchar(20);

ALTER TABLE dine\_table

ADD FOREIGN KEY (staff\_id, staff\_name) REFERENCES staff (staff\_id, staff\_name);

**Q. Write a query to change the column name, data types.**

ALTER TABLE customer

CHANGE

cust\_id customer\_id int;

ALTER TABLE customer

CHANGE

cust\_name customer\_name varchar(20);

ALTER TABLE orders

CHANGE cust\_id customer\_id int;

**Q. Write a query to add a default value to specific column**

ALTER TABLE orders

ALTER dish\_quantity SET DEFAULT 1;

**Q. Add indexes. Also add index on a column having datatype as varchar**

CREATE INDEX customer\_index

ON customer (customer\_id, customer\_name);

**Q. Insert some data to the tables created via query**

INSERT INTO dish

VALUES

(1, "Dish Category One", "Dish One", 150),

(2, "Dish Category Two", "Dish two", 200),

(3, "Dish Category Three", "Dish three", 250),

(4, "Dish Category Four", "Dish Four", 250);

INSERT INTO customer

VALUES

(1, "Jash"),

(2, "Raj"),

(3, "Rahul");

**Q. Add unique constrains on single as well as multiple columns**

ALTER TABLE dish

ADD UNIQUE (dish\_category, dish\_name);

**Q. Try to insert multiple records at a time along with the duplicate values for the columns having unique constrains without any error prompt**

INSERT IGNORE INTO dish

VALUES

(3, "Dish Three", 210),

(4, "Dish Four", 210),

(5, "Dish Four", 240); // ignored this record

This command ignored the record which had a duplicate value.

INSERT INTO dish

VALUES

(5, "Dish Category Four", "Dish Four", 250),

(6, "Dish Category Six", "Dish Five", 350)

ON DUPLICATE KEY UPDATE dish\_category = "Dish Category Five", dish\_name = "Dish Five";