**MySQL Examination**

**Task- 1:**

**Create two tables: users and orders.**

**Each user can have multiple orders.**

**Write a SQL query to fetch the names of users along with the total number of orders they have placed.**

**Query:**

create table user(

user\_id int primary key auto\_increment,

user\_name varchar(20) not null,

place varchar(20) not null

);

create table orders(

order\_id int primary key auto\_increment,

order\_name varchar(20) not null,

user\_id int,

foreign key (user\_id) REFERENCES user(user\_id)

);

insert into user(user\_id, user\_name, place)

values(1, 'gopi', 'khammam'),

(2, 'jathin', 'karimnagar'),

(3, 'ravi', 'medhipatnam'),

(4, 'satya', 'lb.nagar'),

(5, 'varshini', 'hyderabad');

insert into orders(order\_name, user\_id)

values('smart\_phone', 1),

('t-shirt', 2),

('track-paint', 3),

('jeens-paint', 4),

('headset', 5),

('shirt', 3),

('chappal', 2),

('lofar', 1),

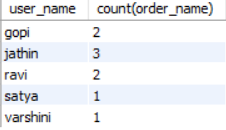
('head-set', 2);

select user\_name, count(order\_name)

from user inner join orders

on user.user\_id = orders.user\_id group by orders.user\_id;

**Output:**



**Task-2:**

**You are working with a database that stores information about students and their courses. There are**

**three tables: students, courses, and enrollments.**

**Write a SQL query to display the names of students along with the courses they have enrolled in.**

**Query:**

select student\_details.student\_name,course\_details.couse\_name

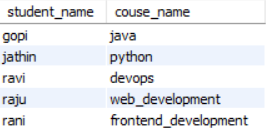
from student\_details inner join course\_details

on student\_details.student\_id = course\_details.student\_id

inner join enrollment\_details

on course\_details.course\_id = enrollment\_details.course\_id;

OUTPUT:



**Task-3:**

**You need to retrieve data from a database that tracks product sales. There are tables for products, sales,and customers.**

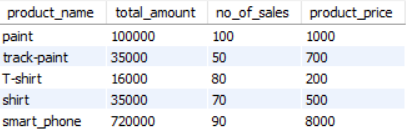
**Write a SQL query to show the total sales amount for each product category.**

**Query:**

Select product\_details.product\_name,(product\_details.product\_price\*sales\_details.no\_of\_sales) as total\_amount,sales\_details.no\_of\_sales,product\_details.product\_price

from product\_details inner join sales\_details on product\_details.product\_id = sales\_details.product\_id

inner join customer\_details on sales\_details.product\_id = customer\_details.product\_id;



**Task-4:**

**You have a database containing information about employees in a company.**

**Write a SQL query to list the names of employees along with their respective managers&#39; names.**

**Ans:** create table employee1(name varchar(20), manager\_name varchar(20));

insert into employee1(name, manager\_name)

values ('gopi', 'santoosh'),

('ravi', 'satya'),

('navya', 'pandi'),

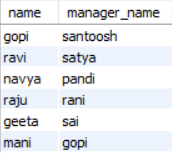
('raju', 'rani'),

('geeta', 'sai'),

('mani', 'gopi');

select name, manager\_name from employee1;

**OUTPUT:**

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**Task-5:**

**You are managing a database for an online store.**

**Write a query to retrieve the top 10 bestselling products based on the total number of units sold.**

**Ans:** create table store(name varchar(20), units\_sold int);

insert into store(name, units\_sold)

values ('shirts', 100),

('paints', 50),

('shoes', 200),

('t-shirts', 150),

('uddis', 20),

('jeans', 30),

('legins', 40),

('chappal', 50),

('formal\_shirt', 100),

('formal\_paint', 80),

('chudidar', 60),

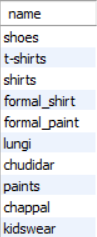
('kidswear', 50),

('lungi', 70),

('standils', 10),

('lofars', 30);

select name from store order by units\_sold desc limit 10;



**Task-6:**

**You have tables for students, courses, and grades.**

**Write a SQL query to display the average grade for each student.**

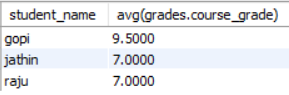
**Query:**

select student\_details.student\_name, avg(grades.course\_grade)

from student\_details inner join grades

on student\_details.student\_id = grades.student\_id group by student\_details.student\_id, student\_details.student\_name;

**Output:**

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**Task-7:**

**You are working with a database for a social media platform.**

**Write a query to show the users who have the most friends.**

**Ans:** create table socialmediaplatfrom(name varchar(20), frinds\_count int);

insert into socialmediaplatfrom(name , frinds\_count)

values('gopi', 40),

('navya', 20),

('ravi', 30),

('jathin', 20),

('sai', 10),

('santoosh', 13);

select name from socialmediaplatfrom order by frinds\_count desc limit 3;

**Output:**



**Task-8:**

**You have tables for employees and departments.**

**Write a query to display the department names along with the total number of employees in each**

**department.**

**Query:**

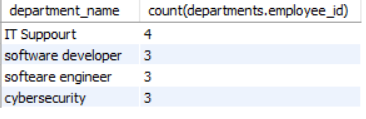
**select departments.department\_name, count(departments.employee\_id)**

**from employee\_details inner join departments**

**on employee\_details.employee\_id = departments.employee\_id**

**group by departments.department\_name;**

**Output:**

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**Task-9:**

**You need to retrieve data from a database tracking product inventory.**

**Write a query to display products with low stock (less than 10 units).**

Ans: create table productinventry (name varchar(20), stock int);

insert into productinventry (name, stock)

values ('oppp', 10),

('saumsung', 20),

('redme', 15),

('moto', 7),

('apple', 3),

('1+', 12),

('jio', 4);

select \* from productinventry;

select name from productinventry where stock < 10;

**output:**

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**Task-10:**

**You have tables for customers and orders.**

**Write a query to show the average order value for each customer.**

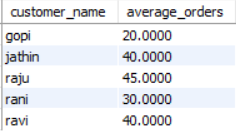
**Query:**

select customer\_details.customer\_name, avg(order\_details.number\_of\_orders) as average\_orders

from customer\_details inner join order\_details

on customer\_details.customer\_id = order\_details.customer\_id group by customer\_details.customer\_id, customer\_details.customer\_name;

**OUTPUT:**

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**Task-11:**

**In a database storing movie information,**

**Write a query to show the top 5 highest-rated movies by users.**

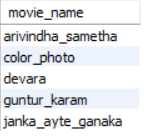
Ans: SELECT movie\_name

FROM movieinformation

ORDER BY movie\_name ASC

LIMIT 5;

**OUTPUT:**



**Task-12:**

**You have tables for invoices and payments.**

**Write a query to show the unpaid invoices and their total amount.**

**Query:**

create table invoice(

invoice\_id int primary key auto\_increment,

invoive\_number int,

customer\_name varchar(20)

);

insert into invoice(invoive\_number, customer\_name)

values(201, 'gopi'),

(202, 'jathin'),

(203, 'ravi'),

(204, 'raju'),

(205, 'ravi');

create table payments(

payment\_id int primary key auto\_increment,

payment\_status varchar(10),

invoice\_id int,

amount int,

foreign key (invoice\_id) references invoice(invoice\_id)

);

insert into payments(payment\_status, invoice\_id,amount)

values('paid', 1, 1000),

('unpaid', 4, 500),

('paid', 3, 200),

('unpaid', 5, 400),

('paid', 2, 400);

SELECT

invoice.customer\_name,

payments.amount

FROM

invoice

INNER JOIN

payments

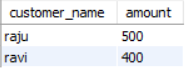
ON

invoice.invoice\_id = payments.invoice\_id

WHERE

payments.payment\_status = 'unpaid';

**Output:**

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