WORKSHEET 3 SQL

1. create table customers (customerNumber int auto_increment,customerName varchar(20),

   contactLastName varchar(20), contactFirstName varchar(20), phone int, addressLine1 varchar(20),

   addressLine2 varchar(20), city varchar(20), state varchar(20), postalCode int, country varchar(20),
   salesRepEmployeeNumber int, creditLimit int, primary key (customerNumber));

2. create table orders (orderNumber int, orderDate date , requiredDate date, shippedDate date, status
varchar(10), comments varchar(60), customerNumber int, primary key (orderNumber),

constraint fk_orders foreign key (customerNumber) references customers (customerNumber));

3. select * from orders;

4. select comments from orders;

5. select orderDate, count(*) from orders where orderDate='2022-06-12';

6. select employeeNumber,lastName,firstName from employees;

7. select orders.orderNumber,customers.customerName from orders

 left join customers on customers.customerNumber=orders.customerNumber union

 select orders.orderNumber,customers.customerName from orders

 cross join customers on customers.customerNumber=orders.customerNumber;

8. select customerName,salesRepEmployeeNumber from customers;

9. select paymentDate,amount from payments;

10. select productName,MSRP,productDescription from products;

11. select products.productName,products.productDescription from products

right join orderdetails on products.productCode=orderdetails.productCode

GROUP BY orderdetails.productCode

ORDER BY orderdetails.quantityOrdered DESC

LIMIT 1;

[NOTE- Here I've selected the 'right join' as in my example query I'm getting the most ordered product with the help of doing the same.]

12. select city,count(*) from

 (select customers.city,customers.customerNumber,orders.orderNumber from orders

 left join

 customers on orders.customerNumber=customers.customerNumber

 union

 select customers.city,customers.customerNumber,orders.orderNumber from orders

 right join

 customers on orders.customerNumber=customers.customerNumber) as ap

GROUP BY customerNumber

ORDER BY COUNT(*) DESC

limit 1;

13. select state,count(*) from customers

group by state

order by count(*) desc

limit 1;

14. select employeeNumber,CONCAT(firstName,' ',lastName) as FullName from employees;

15. select o.orderNumber,c.customerName,(quantityOrdered * amount) as totalAmount

from customers as c

inner join

payments as p on p.customerNumber=c.customerNumber

inner join

orders as o on o.customerNumber=p.customerNumber

inner join

orderdetails as od on o.orderNumber=od.orderNumber

group by orderNumber;

Note- I've practiced the above queries by creating all these tables with the help of MYSQL, so some of the code may be differ from your answer.