```
*Basic*
1) create
create table customer(
customerid int not null primary KEY AUTO INCREMENT,
firstname varchar (255) not null,
age Int,
date date
);
.-----
2) decrypt password
SELECT toolkit.decrypt(password),t.* FROM userlist t
_____
2) backup
select into customerbackup in backup.mdb from customer
______
3) paswword set
UPDATE userlist SET cl password = 'f14ab41a',cl locked = 'N' WHERE
loginid = 'Pranesh'
2) INSERT
insert into customers (column names)
values (1,2)
INSERT INTO info table (name, message)
VALUES('Peter', 'Hi'),
('Joseph', 'Hello'),
('Mark', 'Welcome');
INSERT INTO table name2 (column list)
SELECT column list
FROM table name1
WHERE condition;
______
3) multiple insert
insert into customers (column names)
values (1,2), (3,24);
_____
3) UPDATE
update customer
set firstname = akshay
where customerid =1
UPDATE user SET authentication_string = PASSWORD('jtp12345') WHERE user =
'peter' AND host = 'localhost'
-----
4) updte multiple
update customer
set firstname = as,
```

```
lastname =names
where id IN (1,2)
5) for sql - TOP - first highest record , top3 - first three record.
select TOP1 SALARY FROM EMPLOYEE
______
5) distinct - return wthout duplicates data
 select distinct city from customers;
6) multiple condition
select from customer
where price in (10,20) AND NOT PRICE = 30
______
7)drop,truncate table:
DROP TABLE TABLENMAE
TRUNCATE TABLE TABELNAME
8) DELETE FROM CUSTOMER WHERE EMP ID = 1
10) Alter
ALTER TABLE TALENAME
rename to new TABLENAME
ALTER TABLE TALENAME
DROP TABENAME
ALTER TABLE TALENAMe
MODIFY TALBENAME DATATYPE
*add column
ALTER TABLE TALENAMe
ADD address varchar(100)
AFTER surname;
alter table tablename
modify city varchar (255)
*delete column
ALTER TABLE table name
DROP COLUMN column name;
*rename column
ALTER TABLE customer
RENAME COLUMN cust id TO id,
ALTER TABLE person tbl
ADD PRIMARY KEY (last name, first name);
_____
```

SELECT FROM CUSTOMER
WHERE FIRSTNAME LIKE 'A%'

11) LIKE

```
12) AND
select from customer
 where city = 'mumbai' AND CITY = ' PUNE'
13) select from customer
 where city = 'mumbai' OR CITY = ' PUNE'
14) UNION
select city from customer
UNION
select city from supplier
______
15) not
select from customer
where not country = 'germany'
16) limit
select from customer
limit 3;
        -----
17) CREATE VIEW view name AS
SELECT column1, column2, ...
FROM table name
WHERE colnmae= value;
   -----
18) CREATE INDEX INDEXNAME ON
TABLENAME COLUNMNAME
19) create view viewname
as query
______
20) copy table
**creates table without data.
CREATE TABLE duplicate_table LIKE original_table;
INSERT duplicate table SELECT * FROM original table;
**creates table with data.
create table table2 as select*from table1
21) select date format(joiningDate, '%d/%m/%Y') from Customers;
```

```
30) MySQL Inner Join with USING clause
Sometimes, the name of the columns is the same in both the tables.
In that case, we can use a USING keyword to access the records.
SELECT student id, inst name, city, technology
FROM students
INNER JOIN technologies
USING (student_id);
               ______
32) multiple like
select first name from Customers where (first name like 'a%' or
first name like 'p%');
33)add csv/excel data in table
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server
8.0/Uploads/address book.csv'
INTO TABLE tablename
FIELDS TERMINATED BY ','
OPTIONALLY ENCLOSED BY '"'
LINES TERMINATED BY '\r\n'
IGNORE 1 ROWS;
34) blank recored delete
delete from test where StudentName IS NULL;
______
35) null data
SELECT * FROM Customers
WHERE age is null;
-----
36)
select first name ,count(first name),age,count(age) from Customers
group by first name, age
having count(first name)>1
-----
empty date
SELECT * INTO Table Copy
FROM Table
where 1=2
______
37) fetch duplicate records
SELECT FullName, ManagerId, DateOfJoining, City, COUNT(*)
FROM EmployeeDetails
GROUP BY FullName, ManagerId, DateOfJoining, City
HAVING COUNT(*) > 1;
38) remove duplicates from a table
DELETE E1 FROM Customers E1
INNER JOIN Customers E2
WHERE E1.Customer id > E2.Customer id
```

```
AND E1.first name = E2.first name
AND E1.age= E2.age
AND E1.City = E2.City;
             or
SELECT first name, last name, age, City, COUNT(*)
FROM EmployeeDetails
GROUP BY first name, last name, age, City
HAVING COUNT (*) > 1;
delete from Customers
where
first_name='akshay ' and last_name='sawant ' and age='29' and
ifnull(city,'') ='' and date='2024-08-22'
order by customer id desc limit 1
______
delete particular value
UPDATE Customers
SET age = NULL
WHERE customer id = '1'
______
add email validation to your database
SELECT Email FROM EmployeeInfo WHERE NOT REGEXP LIKE (Email, '[A-Z0-9. %+-
]+@[A-Z0-9.-]+.[A-Z]{2,4}', 'i');
conditions:
1) to display the first and the last record
SELECT * FROM EmployeeInfo WHERE EmpID = (SELECT MIN(EmpID) FROM
EmployeeInfo);
SELECT * FROM EmployeeInfo WHERE EmpID = (SELECT MAX(EmpID) FROM
EmployeeInfo);
______
2) find the third-highest salary
SELECT TOP 1 salary
FROM (
SELECT TOP 3 salary
FROM employee table
ORDER BY salary DESC) AS emp
ORDER BY salary ASC;
______
3) SELECT max salary
FROM (
SELECT max salary
FROM employee table
ORDER BY salary DESC) AS emp
ORDER BY salary ASC;
______
```

```
5) SELECT CONCAT (EmpFname, ' ', EmpLname) AS 'FullName' FROM EmployeeInfo;
6)SELECT * FROM EmployeeInfo WHERE EmpFname NOT IN ('Sanjay','Sonia')
______
7) SELECT Email FROM EmployeeInfo WHERE NOT REGEXP LIKE (Email, '[A-Z0-
9. %+-]+@[A-Z0-9.-]+.[A-Z]{2,4}', 'i');
______
8) Departments who have less than 2 employees working in it.
SELECT DEPARTMENT, COUNT(EmpID) as 'EmpNo' FROM EmployeeInfo GROUP BY
DEPARTMENT HAVING COUNT (EmpD) < 2;
11) find the maximum, minimum, and average salary of the employees.
SELECT Max (Salary),
Min (Salary),
AVG(Salary)
FROM EmployeeSalary;
-----
10) employees who work on Projects other than P1.
SELECT Empld
FROM EmployeeSalary
WHERE NOT Project='P1';
-----
11) fetch all the EmpIds which are present in either of the tables -
'EmployeeDetails' and 'EmployeeSalary'.
SELECT EmpId FROM EmployeeDetails
UNION
SELECT EmpId FROM EmployeeSalary;
______
12) Write an SQL query to fetch common records between two tables.
Ans. SQL Server - Using INTERSECT operator-
SELECT * FROM EmployeeSalary
INTERSECT
SELECT * FROM ManagerSalary;
MySQL - Since MySQL doesn't have INTERSECT operator so we can use the
subquery-
SELECT *
FROM EmployeeSalary
WHERE EmpId IN
(SELECT EmpId from ManagerSalary);
._____
____
```

```
13) SQL query to fetch records that are present in one table but not in
another table.
Ans. SQL Server - Using MINUS- operator-
SELECT * FROM EmployeeSalary
MINUS
SELECT * FROM ManagerSalary;
MySQL - Since MySQL doesn't have a MINUS operator so we can use LEFT
join-
SELECT EmployeeSalary.*
FROM EmployeeSalary
LEFT JOIN
ManagerSalary USING (EmpId)
WHERE ManagerSalary. EmpId IS NULL;
15) fetch the EmpIds that are present in both the tables -
'EmployeeDetails' and 'EmployeeSalary.
SELECT Empld FROM
EmployeeDetails
where EmpId IN
(SELECT EmpId FROM EmployeeSalary);
______
16) display both the EmpId and ManagerId together.
SELECT CONCAT(EmpId, ManagerId) as NewId
FROM EmployeeDetails;
17) uppercase
SELECT UPPER (FullName), LOWER (City)
FROM EmployeeDetails;
______
18) employees who are not working on any project.
SELECT EmpId
FROM EmployeeSalary
WHERE Project IS NULL;
______
22) employtee who joined in the Year 2020.
SELECT * FROM EmployeeDetails
WHERE YEAR (DateOfJoining) = '2020';
Select * from Worker where year(JOINING DATE) = 2014 and
month(JOINING DATE) = 2;
_____
```

23) join many tables

```
SELECT column1, column2
FROM TableA
JOIN TableB ON TableA.Column3 = TableB.Column3
JOIN TableC ON TableA.Column4 = TableC.Column4;
______
24) lowest age 3 records
select distinct age from Customers order by age asc limit 3
-----
25) highest age 3 records
select distinct age from Customers order by age desc limit 3
26) last 3 records
SELECT * FROM Customers order by customer id desc limit 3.
27) first 3 records
SELECT * FROM Customers order by customer id asc limit 3...
_____
28) first 50 pernt record
SELECT *
FROM WORKER
WHERE WORKER ID <= (SELECT count (WORKER ID) /2 from Worker);
______
29) second highest salry
Select max(Salary) from Worker
where Salary not in (Select max(Salary) from Worker);
______
30) similar age
Select distinct W.customer id, W.first name, W.age
from Customers W, Customers W1
where W.age = W1.age
and W.customer id != W1.customer id;
______
31) count of employees working in the department 'Admin'.
SELECT COUNT(*) FROM worker WHERE DEPARTMENT = 'Admin';
33) second-highest salary:
```

Select max(Salary) from Worker