- ***CREATE DATABASE ORG;***
- ***SHOW DATABASES;***
- ***USE ORG;***
- ***DROP DATABASE ORG;***

- ***CREATE TABLE Worker (***
  WORKER_ID INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
  FIRST_NAME CHAR(25),
  LAST_NAME CHAR(25),
  SALARY INT(15),
  JOINING_DATE DATETIME,
  DEPARTMENT CHAR(25)

);

- ***INSERT INTO Worker***
  (WORKER_ID, FIRST_NAME, LAST_NAME, SALARY, JOINING_DATE, DEPARTMENT) VALUES
  (001, 'Monika', 'Arora', 100000, '14-02-20 09.00.00', 'HR'),
  (002, 'Niharika', 'Verma', 80000, '14-06-11 09.00.00', 'Admin'),
  (003, 'Vishal', 'Singhal', 300000, '14-02-20 09.00.00', 'HR'),
  (004, 'Amitabh', 'Singh', 500000, '14-02-20 09.00.00', 'Admin'),
  (005, 'Vivek', 'Bhati', 500000, '14-06-11 09.00.00', 'Admin'),
  (006, 'Vipul', 'Diwan', 200000, '14-06-11 09.00.00', 'Account'),
  (007, 'Satish', 'Kumar', 75000, '14-01-20 09.00.00', 'Account'),
  (008, 'Geetika', 'Chauhan', 90000, '14-04-11 09.00.00', 'Admin');

- ***CREATE TABLE Bonus (***
  WORKER_REF_ID INT,
  BONUS_AMOUNT INT(10),
  BONUS_DATE DATETIME,
  FOREIGN KEY (WORKER_REF_ID)
  REFERENCES Worker(WORKER_ID)
  ON DELETE CASCADE

);

- ***INSERT INTO Bonus***
  (WORKER_REF_ID, BONUS_AMOUNT, BONUS_DATE) VALUES
  (001, 5000, '16-02-20'),
  (002, 3000, '16-06-11'),
  (003, 4000, '16-02-20'),
  (001, 4500, '16-02-20'),
  (002, 3500, '16-06-11');
- ***CREATE TABLE Title (***

```
    WORKER_REF_ID INT,
    WORKER_TITLE CHAR(25),
    AFFECTED_FROM DATETIME,
    FOREIGN KEY (WORKER_REF_ID)
        REFERENCES Worker(WORKER_ID)
      ON DELETE CASCADE
);
```

- ```
  INSERT INTO Title
  (WORKER_REF_ID, WORKER_TITLE, AFFECTED_FROM) VALUES
  (001, 'Manager', '2016-02-20 00:00:00'),
  (002, 'Executive', '2016-06-11 00:00:00'),
  (008, 'Executive', '2016-06-11 00:00:00'),
  (005, 'Manager', '2016-06-11 00:00:00'),
  (004, 'Asst. Manager', '2016-06-11 00:00:00'),
  (007, 'Executive', '2016-06-11 00:00:00'),
  (006, 'Lead', '2016-06-11 00:00:00'),
  (003, 'Lead', '2016-06-11 00:00:00');
  ```
- ```
  SHOW TABLES;
  ```
- ```
  SELECT * FROM BONUS;
  ```
- ```
  SELECT * FROM TITLE;
  ```
- ```
  SELECT * FROM WORKER;
  ```

```
# Q.1) WRITE AN SQL QUERY TO FETCH "FIRST_NAME" FROM THE
WORKER TABLE USING THE ALIAS NAME <WORKER_NAME>.
SELECT FIRST_NAME AS WORKER_NAME FROM WORKER;
#Q.2) WRITE AN SQL QUERY TO FETCH "FIRST_NAME" FROM WORKER
TABLE ISN UPPER CASE.
SELECT UPPER(FIRST_NAME) FROM WORKER;
#Q.3) WRITE AN SQL QUERY TO FETCH UNIQUE VALUES OF DEPERTMENT
FROM THE WORKER TABLE.
SELECT distinct DEPARTMENT FROM WORKER;
# Q.4) WRITE THE SQL QUERY TO PRINT THE FIRST THREE
CHARACTERS OF FIRST_NAME FROM THE WORKER TABLE
SELECT substring(FIRST_NAME,1,3) FROM WORKER;
# Q.5) WRITE AN SQL QUERY TO FIND THE POSITION OF THE
ALPHABET ("A") IN THE FIRST NAME COLUMN "AMITABH" FROM THE
WORKER TABLE
SELECT instr( FIRST_NAME,BINARY"A") FROM WORKER WHERE
FIRST_NAME="AMITABH";
# 0.Q.6)WRITE THE SQL QUERY TO PRINT THE FRIST_NAME FROM THE
WORKER TABLE AFTER REMOVING WHITE SPACE FROM THE RIGHT SIDE.
SELECT  RTRIM (FIRST_NAME) FROM WORKER;
# Q.7) WRITE AN SQL QUERY TO PRINT THE DEPARTMENT FROM THE
WORKER TABLE AFTER REMOVING WHITTE SPACES FROM LEFT SIDE
SELECT LTRIM(DEPARTMENT) FROM WORKER;
#Q.8) WRITE SQL QUERY THAT FETCHES THE UNIQUE VALUES OF
DEPARTMENT FROM THE WORKER TABLE AND PRINTS ITS LENGTH
SELECT DISTINCT LENGTH(DEPARTMENT) FROM WORKER;
# Q.9) WRITE AN SQL QUERY TO PRINT THE FIRST_NAME FROM THE
WORKER TABLE AFTER REPLACING "a" WITH "A"
SELECT REPLACE(FIRST_NAME,"a","A") FROM WORKER;
```
```

```
# Q.10) WRITE FIRST_NAME AND LAST_NAME FROM WORKER TABLE INTO
A SINGLE COLUMN COMPLETE_NAME
SELECT CONCAT(FIRST_NAME, " ", LAST_NAME) FROM WORKER;
#Q.11) PRINT ALL WORKER DETAILS FROM WORKER ORDERD BY
FIRST_NAME ASCENDING
SELECT * FROM WORKER ORDER BY FIRST_NAME ASC;
# Q.12) PRINT ALL WORKER DETAILS FROM WORKER ORDERD BY
FIRST_NAME ASCENDING AND DEPARTMENT DESCENDING
SELECT * FROM WORKER ORDER BY FIRST_NAME ASC , DEPARTMENT
DESC;
# Q.13) WRITE A QUERY TO PRINT DETAILS FOR WORKERS WITH THE
FIRST NAMES "VIPUL" AND "SATISH" FROM THE WORKER TABLE
SELECT * FROM WORKER WHERE FIRST_NAME IN ("VIPUL" , "SATISH");
# Q.14) WRITE A QUERY TO PRINT DETAILS FOR WORKERS WITH THE
FIRST NAMES EXCEPT "VIPUL" AND "SATISH" FROM THE WORKER TABLE
SELECT * FROM WORKER WHERE FIRST_NAME NOT IN ("VIPUL" ,
"SATISH");
#Q.15) WRITE A SQL QUERY TO PRTINT DETAILS OF WORKERS WITH
DEPARTMENT NAMR AS "ADMIN"
SELECT * FROM WORKER WHERE DEPARTMENT="ADMIN";
# Q.16) PRINT THE DETAILS OF WORKER WHOSE FIRST NAME CONTAIN
"A"
SELECT * FROM WORKER WHERE FIRST_NAME LIKE "%A%";
#Q.17) PRINT THE DETAILS OF WORKER WHOSE FIRST NAME END WITH
"A"
SELECT * FROM WORKER WHERE FIRST_NAME LIKE "%A";
#Q.18) PRINT DETAILS OF THE WORKER WHOSE FIRST_NAME ENDS
WITH"H" AND CONTAINS SIX ALPHABETS
SELECT * FROM WORKER WHERE FIRST_NAME LIKE "%H" AND
LENGTH(FIRST_NAME)=6;
# Q.19) PRINT DETAILS WHOSE SALARY LIES BETWEEN 100000 AND
500000
SELECT * FROM WORKER WHERE SALARY>100000 AND SALARY<500000;
#Q.20)PRINT DETAILS WHERE WORKER JOINED IN FEB 2014
SELECT * FROM WORKER WHERE YEAR(JOINING_DATE)=2014 AND
MONTH(JOINING_DATE)=2;
#Q.21) SQL QUERY TO FETCH THE COUNT OF EMPLOYEES WOEKING IN
THE DEPARTMENT"ADMIN'
SELECT COUNT(*) FROM WORKER WHERE DEPARTMENT="ADMIN";
#Q.22) FETCH WORKER NAMES WITH SLARIES>=50000 AND <= 100000
SELECT CONCAT(FIRST_NAME,"  ",LAST_NAME) AS WORKER_NAME,
SALARY FROM WORKER WHERE SALARY>=50000 AND SALARY<=100000;
#Q.23) FETCH THE NUMBER OF WORKER FOR EACH DEPARTMENT IN DESC
ORDER
SELECT DEPARTMENT,COUNT(WORKER_ID) AS NO_OF_WORKER  FROM
WORKER GROUP BY DEPARTMENT ORDER BY NO_OF_WORKER DESC ;
#Q.24) PRINT DETAILS WHO WORK AS A MANAGER
SELECT * FROM WORKER INNER JOIN TITLE ON
WORKER.WORKER_ID=TITLE.WORKER_REF_ID WHERE
WORKER_TITLE="MANAGER";
# Q.25) WRITE AN SQL QUERY TO FETCH DUPLICATES RECORDS HAVING
MATCHING DATA IN SOME FIELDS OF A TABLE
SELECT WORKER_TITLE,AFFECTED_FROM,COUNT(*) FROM TITLE GROUP BY
WORKER_TITLE,AFFECTED_FROM HAVING COUNT(*)>1;
#Q.26) WRITE AN SQL QUERY TO SHOW THE ONLY ODD ROW FRO THE
```

```
TABLE
SELECT * FROM WORKER WHERE MOD(WORKER_ID,2)!=0;
#Q.27) WRITE AN SQL QUERY TO SHOW THE ONLY EVEN ROW FRO THE
TABLE
SELECT * FROM WORKER WHERE MOD(WORKER_ID,2)=0;
#Q.28) WRITE SQL QUERY TO CLONE A NEW TABLE FROM ANOTHER TABLE
CREATE TABLE WORKERCLONE LIKE WORKER;
SELECT * FROM WORKERCLONE;
#Q.29) WRITE AN SQL QUERY TO FETCH INTERSECTING RECORDS OF TWO
TABLES
SELECT * FROM WORKER LEFT JOIN TITLE ON
WORKER.WORKER_ID=TITLE.WORKER_REF_ID
INTERSECT
SELECT * FROM WORKER RIGHT JOIN TITLE ON
WORKER.WORKER_ID=TITLE.WORKER_REF_ID;
#Q.30) WRITE QUERY TO SHOW THE TOP 10 RECORDS OF A SALARY
SELECT * FROM WORKER ORDER BY SALARY DESC LIMIT 10;
```