## 106118106 LAB2 Q1

```
use mysampldb;
DROP TABLE books;
CREATE TABLE books (
    BOOKNO INT(3),
      TITLE VARCHAR(50),
      PUBLICATION VARCHAR(50),
      AUTHOR VARCHAR(100),
      PRICE DECIMAL(6,2),
      QUANTITY INT(3),
      EDITION INT(2),
      PRIMARY KEY (BOOKNO),
      CHECK(QUANTITY<=100)
);
SELECT * FROM books;
★ Local instance MySQL80 ×
× Lab2cmds2
         10
                EDITION INT(2),
                PRIMARY KEY (BOOKNO),
          11
         12
                CHECK(QUANTITY<=100)
          13 );
          14 . SELECT * FROM books;
          15
          16 • INSERT INTO books VALUES(1, 'Fundamentals of Database System', 'Pearson', 'Elmasri, Navathe'
         BOOKNO TITLE PUBLICATION AUTHOR PRICE QUANTITY EDITION
 No object
selected
        50 17:13:05 DROP TABLE books
                                                                       0.969 sec
```

INSERT INTO books VALUES(1, 'Fundamentals of Database System', 'Pearson', 'Elmasri, Navathe', 800, 25, 7);

INSERT INTO books VALUES(2, 'Database System Concepts','TATA McGrawHill Higher Education', 'Silberschatz, Korth, Sudharshan', 750, 15, 7);

INSERT INTO books VALUES(3, 'Database Management System', 'TATA McGraw Hill', 'Raghurama Krishnan, Johannes Gehrke', 590, 10, 3);

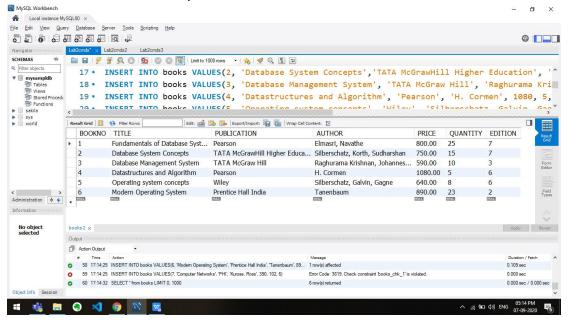
INSERT INTO books VALUES(4, 'Datastructures and Algorithm', 'Pearson', 'H. Cormen', 1080, 5, 6);

INSERT INTO books VALUES(5, 'Operating system concepts', 'Wiley', 'Silberschatz, Galvin, Gagne', 640, 8, 6);

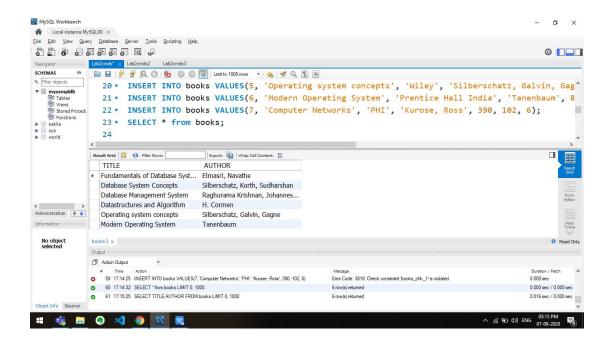
INSERT INTO books VALUES(6, 'Modern Operating System', 'Prentice Hall India', 'Tanenbaum', 890, 23, 2);

INSERT INTO books VALUES(7, 'Computer Networks', 'PHI', 'Kurose, Ross', 390, 102, 6);

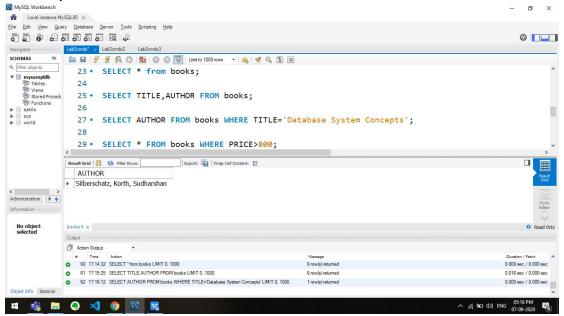
#### SELECT \* from books;



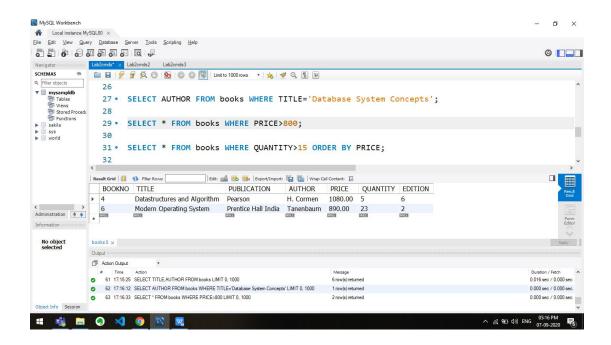
SELECT TITLE, AUTHOR FROM books;



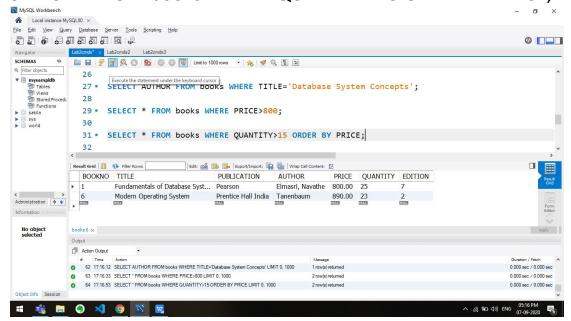
# SELECT AUTHOR FROM books WHERE TITLE='Database System Concepts';



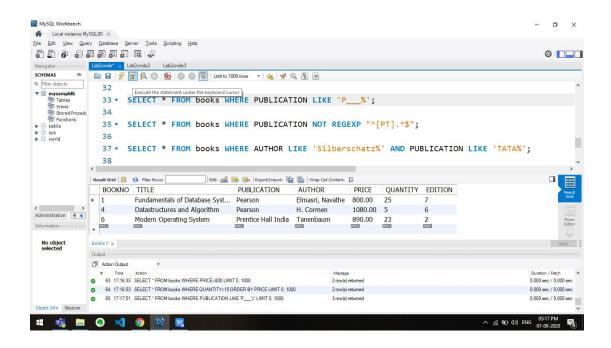
SELECT \* FROM books WHERE PRICE>800;



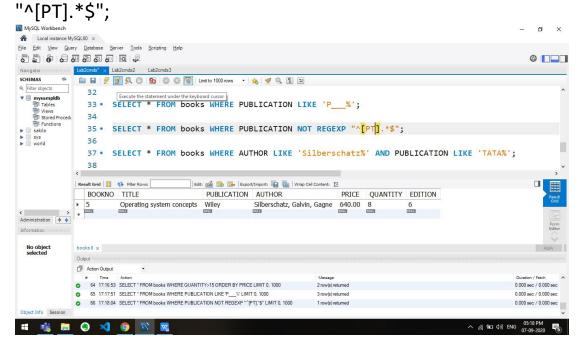
#### SELECT \* FROM books WHERE QUANTITY>15 ORDER BY PRICE;



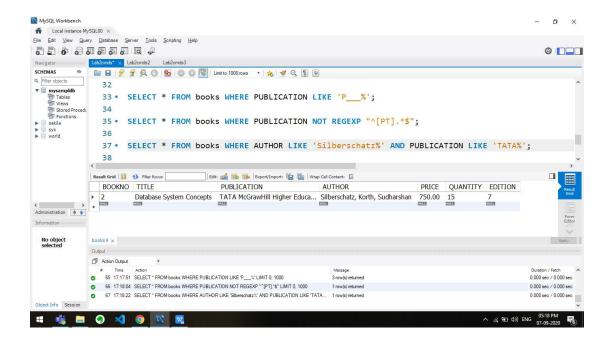
SELECT \* FROM books WHERE PUBLICATION LIKE 'P\_\_\_\_%';



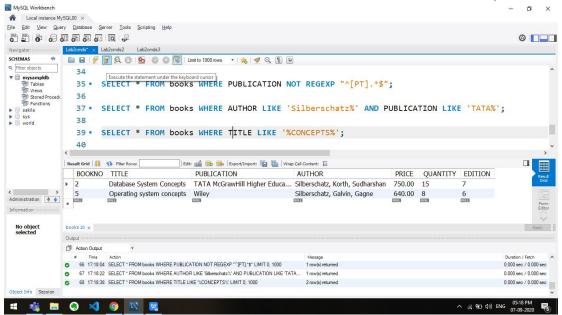
### SELECT \* FROM books WHERE PUBLICATION NOT REGEXP



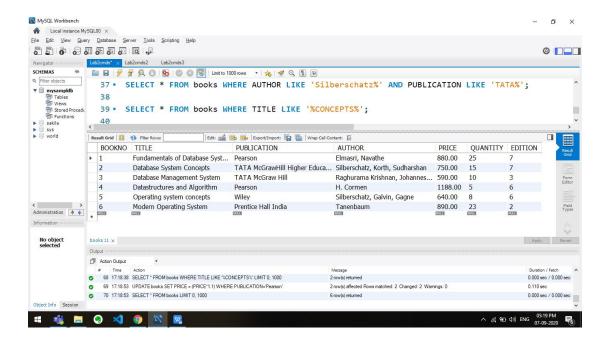
SELECT \* FROM books WHERE AUTHOR LIKE 'Silberschatz%' AND PUBLICATION LIKE 'TATA%';



#### SELECT \* FROM books WHERE TITLE LIKE '%CONCEPTS%';



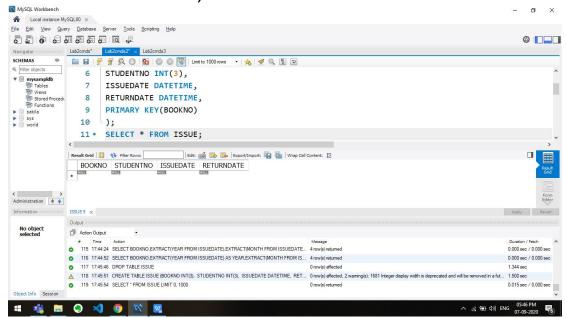
UPDATE books SET PRICE = (PRICE\*1.1) WHERE PUBLICATION='Pearson'; SELECT \* FROM books;



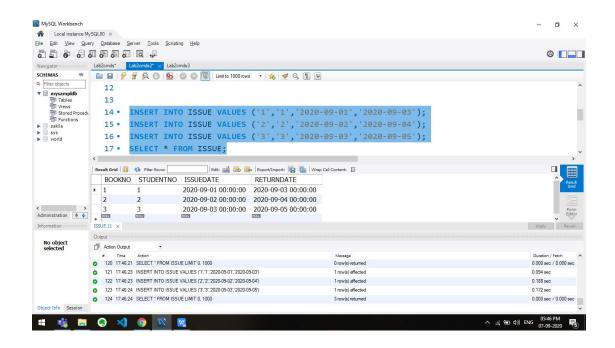
use mysampldb; DROP TABLE ISSUE;

CREATE TABLE ISSUE (BOOKNO INT(3), STUDENTNO INT(3), ISSUEDATE DATETIME, RETURNDATE DATETIME, PRIMARY KEY(BOOKNO));

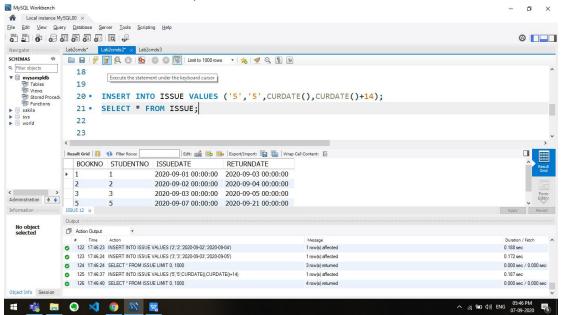
#### SELECT \* FROM ISSUE;



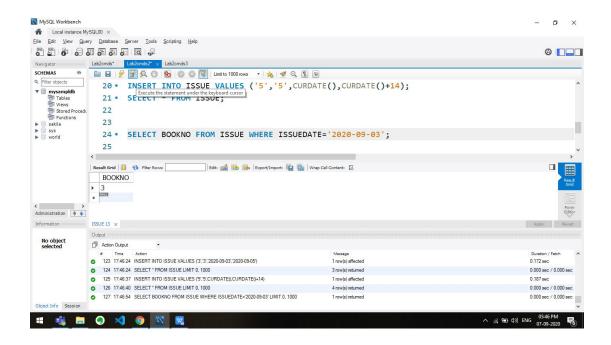
INSERT INTO ISSUE VALUES ('1','1','2020-09-01','2020-09-03'); INSERT INTO ISSUE VALUES ('2','2','2020-09-02','2020-09-04'); INSERT INTO ISSUE VALUES ('3','3','2020-09-03','2020-09-05'); SELECT \* FROM ISSUE;



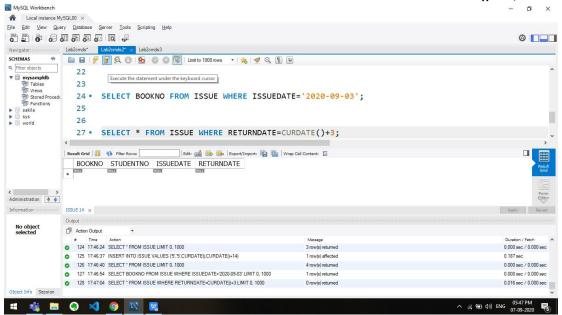
INSERT INTO ISSUE VALUES ('5','5',CURDATE(),CURDATE()+14); SELECT \* FROM ISSUE;



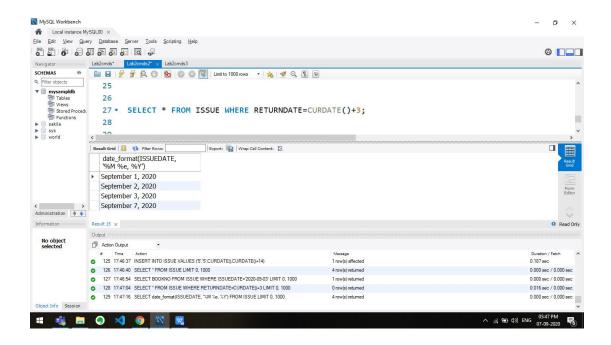
SELECT BOOKNO FROM ISSUE WHERE ISSUEDATE='2020-09-03';



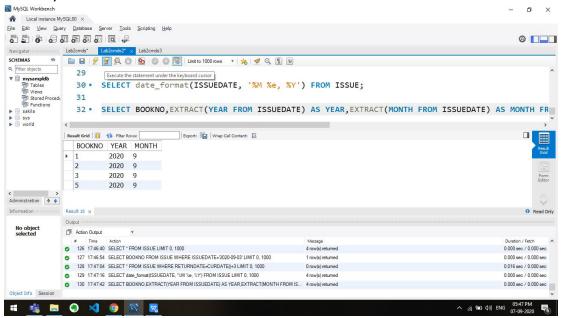
SELECT \* FROM ISSUE WHERE RETURNDATE=CURDATE()+3;



SELECT date\_format(ISSUEDATE, '%M %e, %Y') FROM ISSUE;



# SELECT BOOKNO, EXTRACT (YEAR FROM ISSUEDATE) AS YEAR, EXTRACT (MONTH FROM ISSUEDATE) AS MONTH FROM ISSUE;



```
use mysampldb;
DROP TABLE EMP;
CREATE TABLE EMP(
     EMPNO INT(6) NOT NULL,
     ENAME VARCHAR(20) NOT NULL,
    JOB VARCHAR(10) NOT NULL,
     DEPT VARCHAR(10),
     DEPTNO INT(3),
    SAL DECIMAL(7,2),
       PRIMARY KEY(EMPNO),
       CHECK (SAL>0),
       CHECK (DEPT IN ('CSE', 'IT', 'ECE', 'EEE', 'CIVIL'))
);
MySQL Workbench
 ▲ Local instance MySQL80 ×
 @ |
           🗎 🖟 💯 👰 🔘 😘 🔘 🚳 💮 🚳 Limit to 1000 rows 💌 🏂 🍼 🔍 🕦 🗷
                    DEPTNO INT(3),
                    SAL DECIMAL(7,2),
             9
                   PRIMARY KEY(EMPNO),
            10
                   CHECK (SAL>0),
            11
                    CHECK (DEPT IN ('CSE', 'IT', 'ECE', 'EEE', 'CIVIL'))
            12
            13 );
            14 • SELECT * FROM EMP;
            15
            EMPNO ENAME JOB DEPT DEPTNO SAL
  No object
selected
             73 17:24:25 CREATE TABLE EMP( EMPNO INT(6) NOT NULL, ENAME VARCHAR(20) NOT NULL, JOB VAR...
            74 17:24:42 CREATE TABLE EMP( EMPNO INT(6) NOT NULL, ENAME VARCHAR(20) NOT NULL, JOB VAR... Error Code: 1050. Table 'emp' already exists
```

INSERT INTO EMP VALUES(1,'Arjun', 'Software', 'CSE', 106, 50000.00);
INSERT INTO EMP VALUES(2,'Arun', 'Construct', 'Civil', 104, 10000.00);
INSERT INTO EMP VALUES(3,'Bravo', 'AppDev', 'CSE', 106, 20000.00);

INSERT INTO EMP VALUES(4,'Duplesis', 'Hardware', 'ECE', 112, 30000.00);

INSERT INTO EMP VALUES(5,'Dhoni', 'Software', 'CSE', 106, 70000.00);

INSERT INTO EMP VALUES(6,'Raina', 'Wiring', 'EEE', 106, 15000.00);

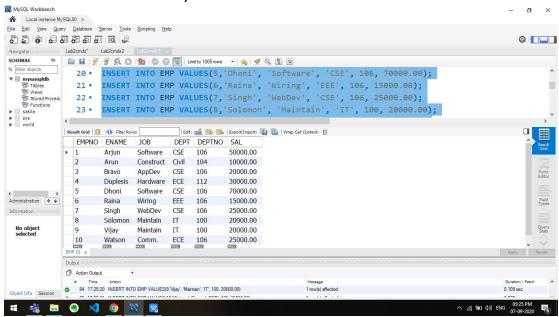
INSERT INTO EMP VALUES(7,'Singh', 'WebDev', 'CSE', 106, 25000.00);

INSERT INTO EMP VALUES(8,'Solomon', 'Maintain', 'IT', 100, 20000.00);

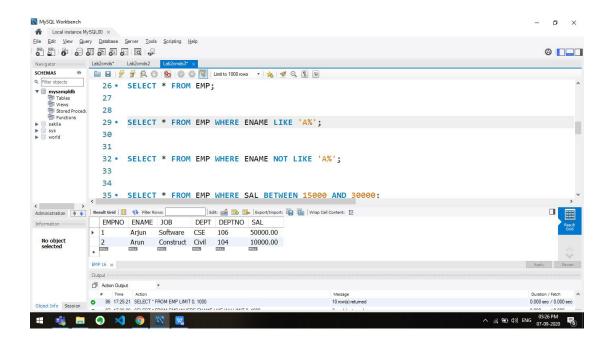
INSERT INTO EMP VALUES(9,'Vijay', 'Maintain', 'IT', 100, 20000.00);

INSERT INTO EMP VALUES(10, 'Watson', 'Comm.', 'ECE', 106, 25000.00);

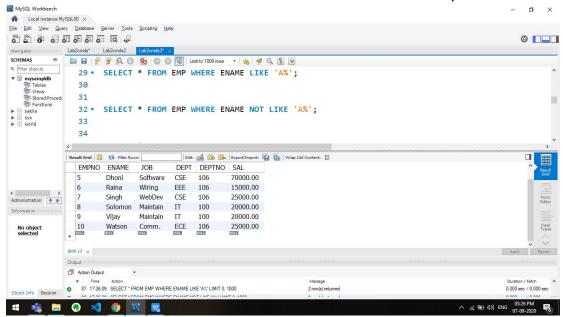
#### SELECT \* FROM EMP;



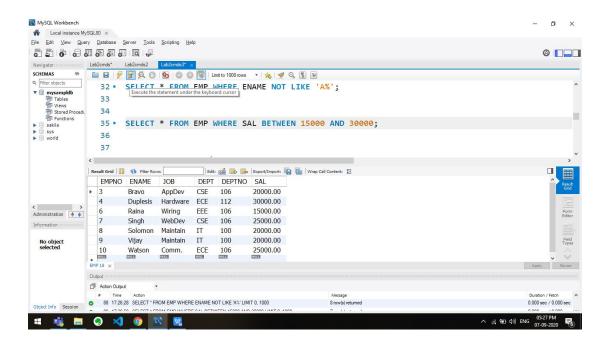
SELECT \* FROM EMP WHERE ENAME LIKE 'A%';



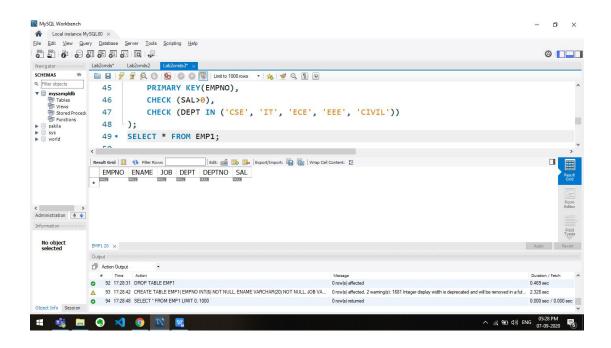
SELECT \* FROM EMP WHERE ENAME NOT LIKE 'A%';



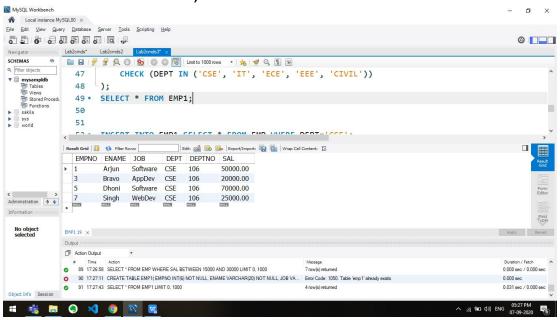
SELECT \* FROM EMP WHERE SAL BETWEEN 15000 AND 30000;



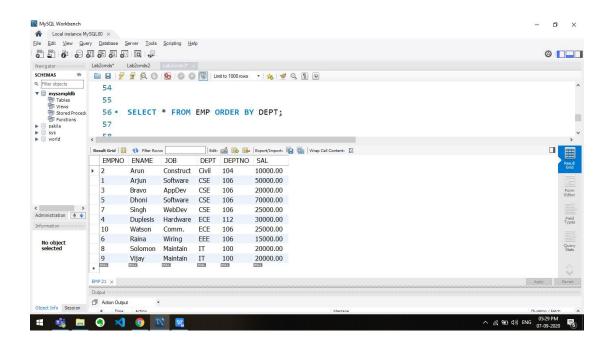
```
CREATE TABLE EMP1(
EMPNO INT(6) NOT NULL,
ENAME VARCHAR(20) NOT NULL,
JOB VARCHAR(10) NOT NULL,
DEPT VARCHAR(10),
DEPTNO INT(3),
SAL DECIMAL(7,2),
PRIMARY KEY(EMPNO),
CHECK (SAL>0),
CHECK (DEPT IN ('CSE', 'IT', 'ECE', 'EEE', 'CIVIL'))
);
SELECT * FROM EMP1;
```



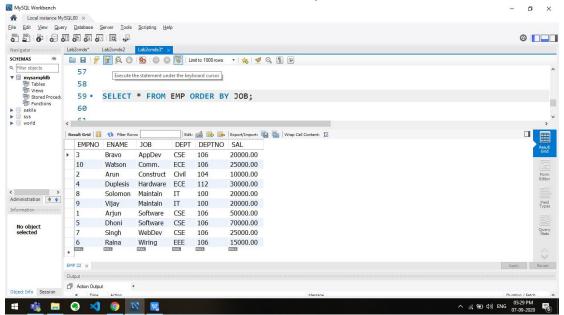
INSERT INTO EMP1 SELECT \* FROM EMP WHERE DEPT='CSE'; SELECT \* FROM EMP1;



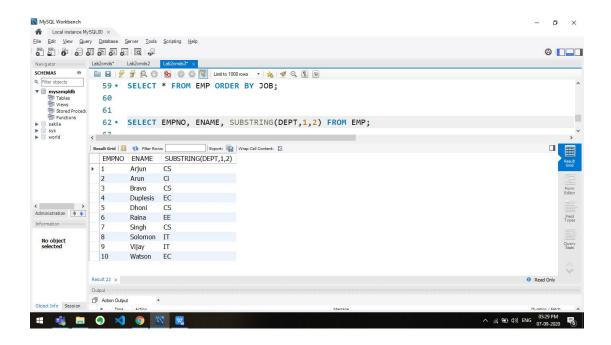
SELECT \* FROM EMP ORDER BY DEPT;



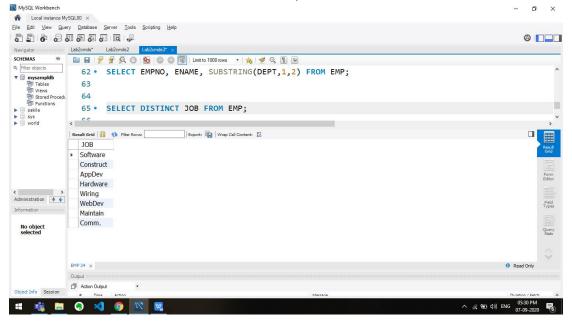
#### SELECT \* FROM EMP ORDER BY JOB;



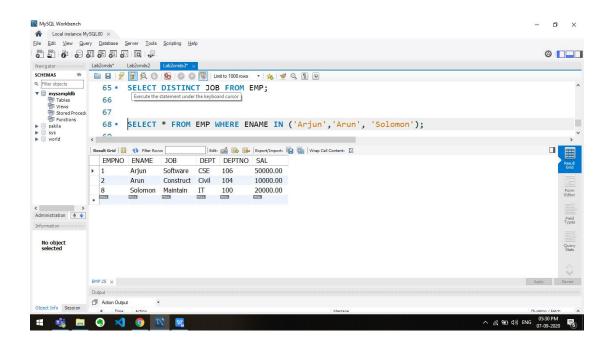
SELECT EMPNO, ENAME, SUBSTRING(DEPT,1,2) FROM EMP;



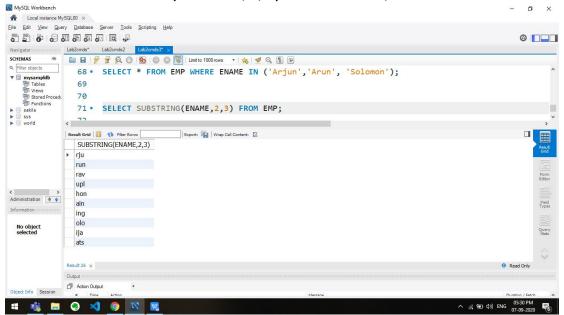
#### SELECT DISTINCT JOB FROM EMP;



SELECT \* FROM EMP WHERE ENAME IN ('Arjun', 'Arun', 'Solomon');



SELECT SUBSTRING(ENAME,2,3) FROM EMP;



SELECT SUBSTRING(REVERSE(ENAME),5,3) FROM EMP;

