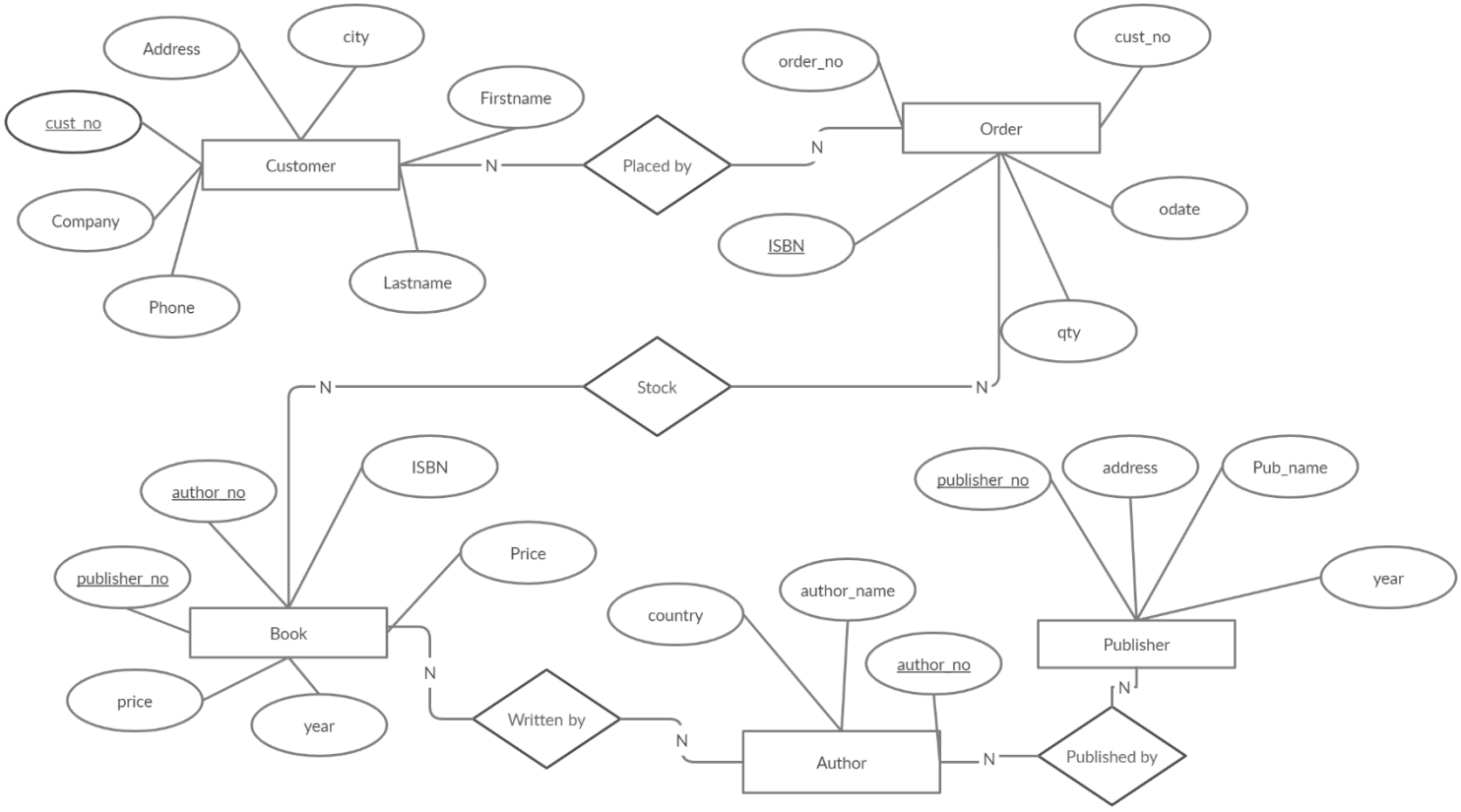
DBMSL LAB

Assignment 2

Roll No :- 31384

ER Diagram :-



/* ASSIGNMENT 2 *

- **Code :-**

```
create database book;
use book;

create table customer(
        cust_no int(10) PRIMARY KEY,
        cust_fname varchar(20),
        cust_lname varchar(20),
        cust_company varchar(20),
        cust_addr varchar(50),
        city varchar(20),
        cust_phone varchar(10)
);

create table order_ (
        order_no int(10) PRIMARY KEY,
```

```
        cust_no int(10),
        ISBN varchar(20),
        qty int(10),
        odate date,
    constraint FK_order1 FOREIGN KEY (cust_no) REFERENCES customer(cust_no) ON DELETE CASCADE ON UPDATE CASCADE,
    constraint FK_order2 FOREIGN KEY (ISBN) REFERENCES book(ISBN) ON DELETE CASCADE ON UPDATE CASCADE
);


create table book(
    ISBN varchar(20) PRIMARY KEY,
    title varchar(20),
    unitprice int(10),
    author_no int(10),
    publisher_no int(10),
    year int(4),
    constraint FK_book1 FOREIGN KEY (author_no) REFERENCES author(author_no) ON DELETE CASCADE ON UPDATE CASCADE,
    constraint FK_book2 FOREIGN KEY (publisher_no) REFERENCES publisher(publisher_no) ON DELETE CASCADE ON UPDATE CASCADE
);


create table author(
        author_no int(10) PRIMARY KEY,
        authorname varchar(20),
```

```
        country varchar(20)
);

create table publisher(
        publisher_no int(10) PRIMARY KEY,
        publishername varchar(20),
        publisheraddr varchar(20),
        year int(4)
);



describe customer;
describe order_;
describe book;
describe author;
describe publisher;


insert into customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone)
values(2,"Ramesh","Sisodiya","Mafia","Karsarwadi","Pune","3627367672");

insert into customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone)
values(3,"Rahul","Tewtia","Robinwood","Koregaon","mumbai","3626235623");

insert into customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone)
values(4,"Adarsh","Gaikwad","mailstore","rahatani","Pune","365263623");

insert into customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone)
values(5,"Sambhaji","Wanjare","kohn","milanpur","Satara","3473646734");
```

```
insert into customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone) values(6,"Ashutosh","Shinde","ksoew
limited","Karsarwadi","Pune","36273672");

insert into customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone)
values(7,"Mahesh","Jagtap","hindia","lanjangaon","latur","4334343323");

insert into customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone) values(8,"Krishna","Sawant","Ashwini
books","midaln","Ahemdnagar","436534632");

insert into customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone) values(9,"Shritesh","Jagtap","mehera
books","koregaon","mumbai","23232332");

insert into customer(cust_no,cust_fname,cust_lname,cust_company,cust_addr,city,cust_phone) values(10,"Dinesh","Sharma","paras
books","lajangaon","latur","42432433");


select * from customer;


insert into order_(order_no,cust_no,ISBN,qty,odate) values('11','1','SAGHGSHG1','2392',STR_TO_DATE("August 10 2017", "%M %d %Y"));

insert into order_(order_no,cust_no,ISBN,qty,odate) values('12','2','SAGHGSHG2','223',STR_TO_DATE("May 1 2018", "%M %d %Y"));

insert into order_(order_no,cust_no,ISBN,qty,odate) values('13','3','SAGHGSHG3','2213',STR_TO_DATE("December 31 2019", "%M %d %Y"));

insert into order_(order_no,cust_no,ISBN,qty,odate) values('14','4','SAGHGSHG4','22332',STR_TO_DATE("June 09 2014", "%M %d %Y"));

insert into order_(order_no,cust_no,ISBN,qty,odate) values('15','5','SAGHGSHG5','2312',STR_TO_DATE("July 15 2012", "%M %d %Y"));

insert into order_(order_no,cust_no,ISBN,qty,odate) values('16','6','SAGHGSHG6','2312',STR_TO_DATE("March 23 2011", "%M %d %Y"));

insert into order_(order_no,cust_no,ISBN,qty,odate) values('17','7','SAGHGSHG7','2311',STR_TO_DATE("july 04 2019", "%M %d %Y"));

insert into order_(order_no,cust_no,ISBN,qty,odate) values('18','8','SAGHGSHG8','2321',STR_TO_DATE("June 23 2018", "%M %d %Y"));

insert into order_(order_no,cust_no,ISBN,qty,odate) values('19','9','SAGHGSHG9','2333',STR_TO_DATE("May 16 2016", "%M %d %Y"));

insert into order_(order_no,cust_no,ISBN,qty,odate) values('20','10','SAGHGSHG10','2100',STR_TO_DATE("September 12 2013", "%M %d %Y"));

select * from order_;


insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG1','Seven Habits','230.00','1','1','2004');
```

```
insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG2','Things and rich','259.00','1','1','2002');
insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG3','Succesful man','564.00','1','1','2003');
insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG4','rich dad poor dad','657.00','1','1','2010');
insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG5','Games of thrones','2300.00','1','1','2011');
insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG6','Harry Potter:Goblet of fire','560.00','1','1','2004');
insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG7','hobitcs','547.00','1','1','2002');
insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG8','the lean startup','120.00','1','1','2000');
insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG9','conquer','600.00','1','1','2005');
insert into book(ISBN,title,unitprice,author_no,publisher_no,year) values('SAGHGSHG10','philosphers stone','520.00','1','1','2003');

select * from book;

insert into author(author_no,authorname,country) values('1','Mark yenberg','Austrilia');
insert into author(author_no,authorname,country) values('2','Rutherford','England');

insert into author(author_no,authorname,country) values('3','Green berg','South africa');

insert into author(author_no,authorname,country) values('4','Abhishek sharma','India');

insert into author(author_no,authorname,country) values('5','Tarak Mehta','India');

insert into author(author_no,authorname,country) values('6','Isacc ken','Austrilia');
insert into author(author_no,authorname,country) values('7','larry venis','England');
insert into author(author_no,authorname,country) values('8','G Phillips','Jermany');
```

```
select * from author;

insert into publisher(publisher_no,publishername,publisheraddr,year) values('1','Broadcast','Mexico','2008');
insert into publisher(publisher_no,publishername,publisheraddr,year) values('2','HBO','England','2015');
insert into publisher(publisher_no,publishername,publisheraddr,year) values('3','T-series','India','2007');
insert into publisher(publisher_no,publishername,publisheraddr,year) values('4','Dharma','India','2010');
insert into publisher(publisher_no,publishername,publisheraddr,year) values('5','Slayy point','India','2009');
insert into publisher(publisher_no,publishername,publisheraddr,year) values('6','Carryminati','India','2006');
insert into publisher(publisher_no,publishername,publisheraddr,year) values('7','Filtercopy','India','2002');
insert into publisher(publisher_no,publishername,publisheraddr,year) values('8','Balaji','India','2001');
insert into publisher(publisher_no,publishername,publisheraddr,year) values('9','Ruthermerg','Spain','2008');
insert into publisher(publisher_no,publishername,publisheraddr,year) values('10','HBO','England','2013');

select * from publisher;

create view book_author as select authorname from author;
select * from book_author;

create view pune_customer as select * from customer where city="pune";
select * from pune_customer;
```

```
create view pub_2004 as select * from publisher where year="2004";
select * from pub_2004;

alter table Customer ADD UNIQUE index (cust_fname);
alter table order_ ADD UNIQUE index (order_no);
alter table book ADD UNIQUE index(title);




show index from Customer;
show index from order_;
show index from book;




/* Assignment 3 */

select * from customer where (city = 'pune' or city = 'mumbai') and (cust_fname LIKE 'a%' or cust_fname LIKE 'd%');
select DISTINCT city from customer;
SET SQL_SAFE_UPDATES = 0;
update book set unitprice = unitprice + (unitprice * 0.05) where year=2015;
delete from customer where city = 'pune';
```

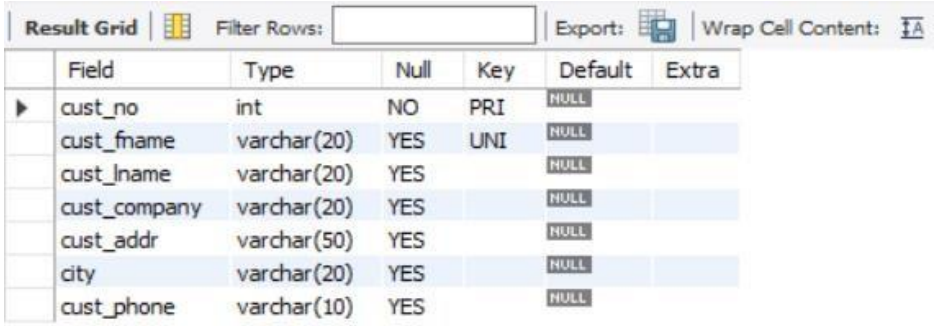
```
select DISTINCT * from publisher where year IN (2015,2016);

select * from book where unitprice in(select max(unitprice ) from book);

 select * from book where unitprice between 300 AND 400;

 select title,unitprice,year from book order by year DESC;

 select title,author_no,publisher_no from book where year in(2002,2004,2006);



/* Assignment 4 */


select * from Customer natural join order_;


select book.title,author.authorname,author.country from book left join author on book.author_no = author.author_no;


select Customer.cust_no,Customer.cust_fname,Customer.cust_lname,Order_.order_no from Customer left join Order_ on Customer.cust_no=Order_.cust_no where
odate is null;


select book.title, book.ISBN, Order_.order_no from book left join Order_ on book.ISBN = Order_.ISBN where Order_.odate is null;


select Customer.cust_fname, book.title, book.author_no , book.year from Customer left join Order_ on Customer.cust_no = Order_.cust_no left join book on Order_.ISBN
= book.ISBN;


select count(book.title), Customer.cust_fname,Customer.cust_lname from Customer left join Order_ on Customer.cust_no = Order_.cust_no left join book on Order_.ISBN
=book.ISBN;
```

```
select Customer.cust_no,Order_.order_no,Order_.ISBN from customer left join Order_ on Customer.cust_no = Order_.cust_no left join book on Order_.ISBN = book.ISBN where book.title="Conquer";


select Customer.cust_company from Customer left join Order_ on Customer.cust_no = Order_.cust_no left join book on Order_.ISBN = book.ISBN where book.year=2015;


use book;

create view Book_author_view1 as select book.title ,author.author_no,author.authorname,author.country from book left join author on book.author_no= author.author_no;

select * from Book_author_view1;
```

Output:-

Customer Table: -

describe customer;

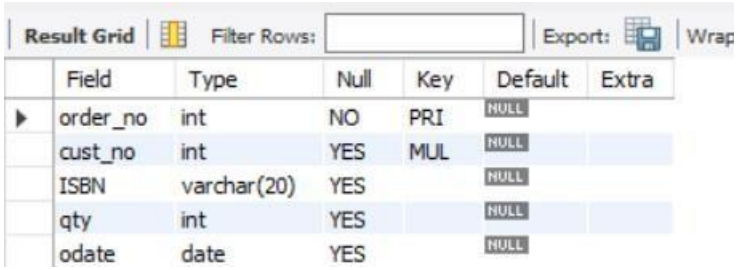


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
cust_no	int	NO	PRI	NULL	
cust_fname	varchar(20)	YES	UNI	NULL	
cust_lname	varchar(20)	YES		NULL	
cust_company	varchar(20)	YES		NULL	
cust_addr	varchar(50)	YES		NULL	
city	varchar(20)	YES		NULL	
cust_phone	varchar(10)	YES		NULL	

Order Table: -

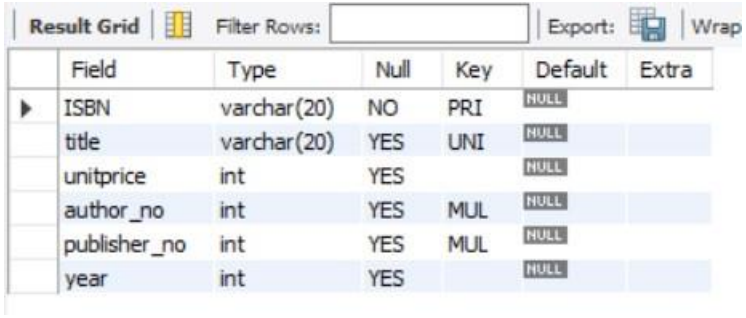
Describe order;



Field	Type	Null	Key	Default	Extra
order_no	int	NO	PRI	NULL	
cust_no	int	YES	MUL	NULL	
ISBN	varchar(20)	YES		NULL	
qty	int	YES		NULL	
odate	date	YES		NULL	

Book table:-

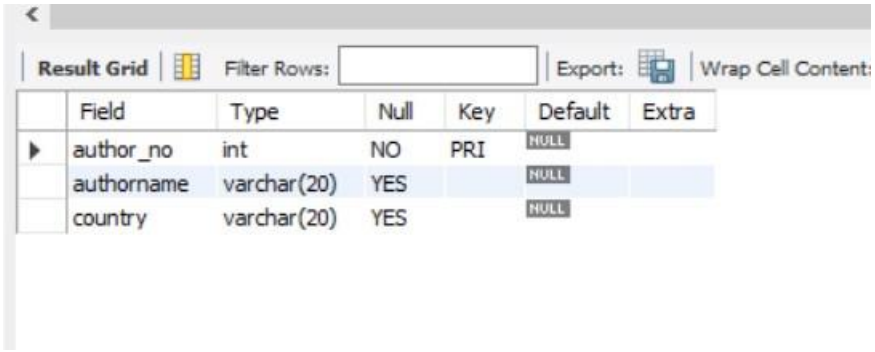
Describe book;



Field	Type	Null	Key	Default	Extra
ISBN	varchar(20)	NO	PRI	NULL	
title	varchar(20)	YES	UNI	NULL	
unitprice	int	YES		NULL	
author_no	int	YES	MUL	NULL	
publisher_no	int	YES	MUL	NULL	
year	int	YES		NULL	

Author Table:-

Describe author;

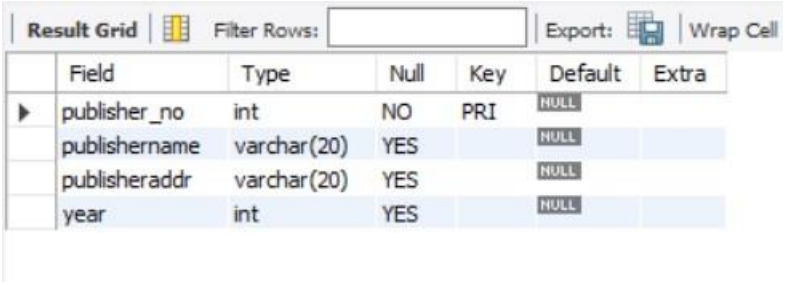


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
author_no	int	NO	PRI	NULL	
authorname	varchar(20)	YES		NULL	
country	varchar(20)	YES		NULL	

Publisher Table :-

Describe publisher;



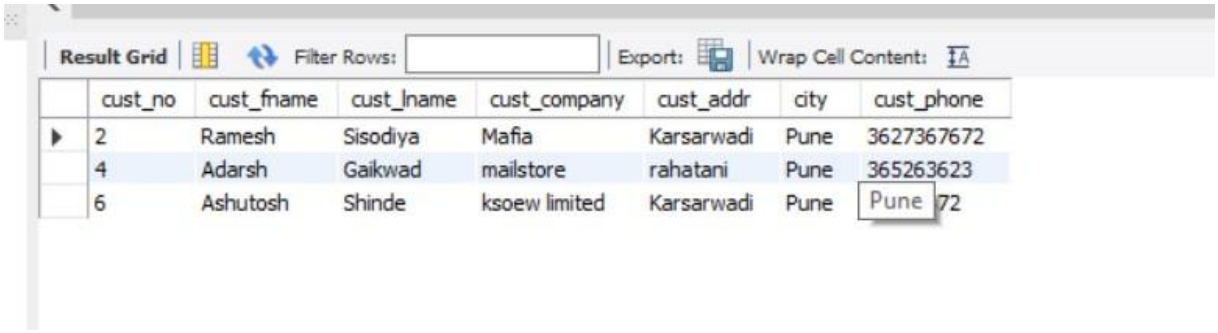
Result Grid | Filter Rows: | Export: | Wrap Cell

Field	Type	Null	Key	Default	Extra
publisher_no	int	NO	PRI	NULL	
publishername	varchar(20)	YES		NULL	
publisheraddr	varchar(20)	YES		NULL	
year	int	YES		NULL	

VIEWS :-

select * from book_author;

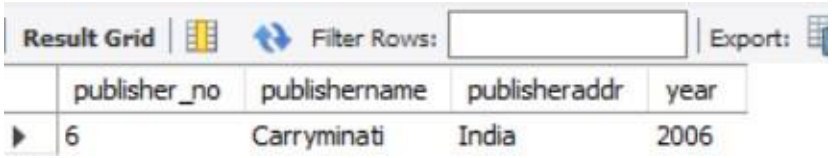
select * from pune_customer;



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

cust_no	cust_fname	cust_lname	cust_company	cust_addr	city	cust_phone
2	Ramesh	Sisodiya	Mafia	Karsarwadi	Pune	3627367672
4	Adarsh	Gaikwad	mailstore	rahatani	Pune	365263623
6	Ashutosh	Shinde	ksoew limited	Karsarwadi	Pune	Pune 72

select * from pub;



Result Grid | Filter Rows: | Export:

publisher_no	publishername	publisheraddr	year
6	Carryminati	India	2006

INDEXS :-

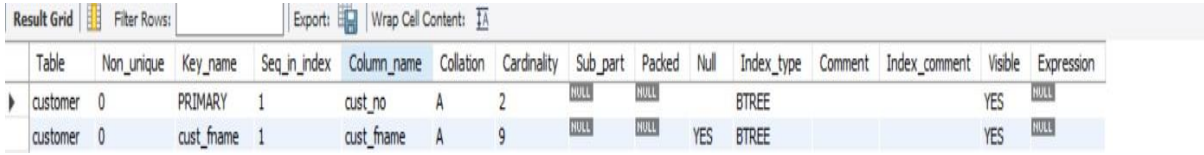


Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
customer	0	PRIMARY	1	cust_no	A	2	NULL	NULL		BTREE			YES	NULL
customer	0	cust_fname	1	cust_fname	A	9	NULL	NULL	YES	BTREE			YES	NULL

show index from Customer;

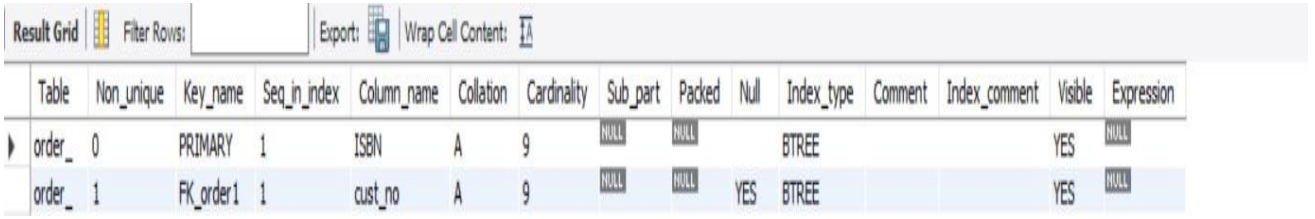


Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
order_	0	PRIMARY	1	ISBN	A	9	NULL	NULL		BTREE			YES	NULL
order_	1	FK_order1	1	cust_no	A	9	NULL	NULL	YES	BTREE			YES	NULL

show index from order_;

show index from book;

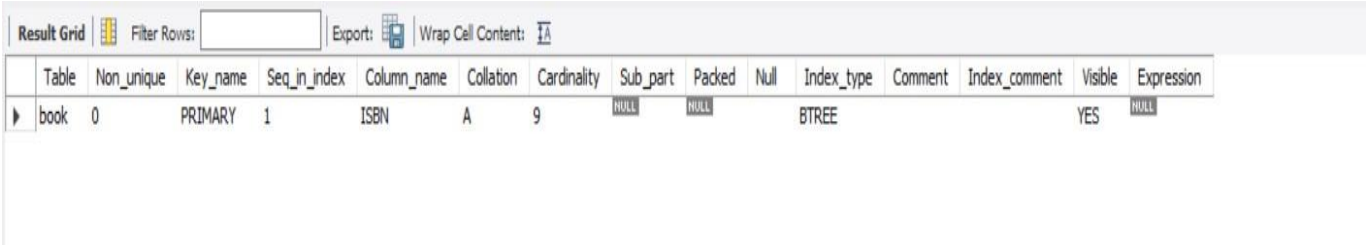
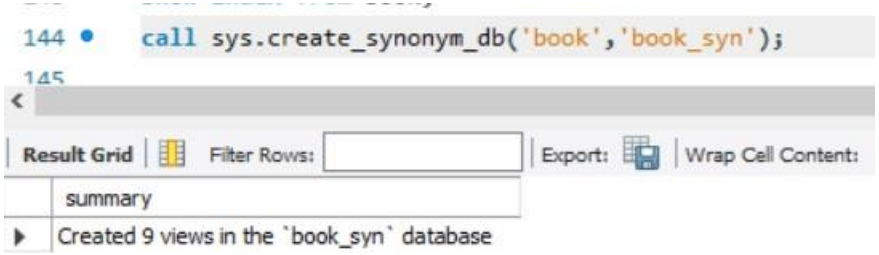


Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
book	0	PRIMARY	1	ISBN	A	9	NULL	NULL		BTREE			YES	NULL

Synonyms :-

call sys.create_synonym_db('book','book_syn');



JDBC CODE :-

```
package JDBC;

import java.sql.*;

import java.util.Scanner;



public class JDBC {

  // JDBC driver name and database URL

  static final String JDBC_DRIVER = "com.mysql.jdbc.Driver";

  static final String DB_URL = "jdbc:mysql://localhost:3306/mysql";

 static int choice;
```

```
static int ch;
static Scanner input=new Scanner(System.in);
 // Database credentials
 static final String USER = "root";
 static final String PASS = "ghule@123";

 public static void main(String[] args) throws SQLException {
 Connection conn=null;
 Statement stmt=null;
 ResultSet myRs=null;

 try{
     Class.forName("com.mysql.cj.jdbc.Driver");
    conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/student1","root","ghule@123");
    stmt=conn.createStatement();

   do {
              System.out.println("1.Create table");
              System.out.println("2.Insert table");
              System.out.println("3.Update table");
              System.out.println("4.Drop table");
              choice=input.nextInt();

              switch(choice)
```

```
{
        case 1:     System.out.println("Creating table in given database...");
                    stmt = conn.createStatement();

                    String sql = "CREATE TABLE REGISTRATION " +
                            "(id INTEGER not NULL, " +
                            " first VARCHAR(255), " +
                            " last VARCHAR(255), " +
                            " age INTEGER, " +
                            " PRIMARY KEY ( id ))";

                    stmt.executeUpdate(sql);
                    System.out.println("Created REGISTRATION table in given database..."
                                + "with columns id firstname lastname age ");
                    myRs=stmt.executeQuery("Select * from REGISTRATION");
                    System.out.println("Table haveno values inserted ");

                    break;

   case 2: System.out.println("Inserting records into the table...");
                    stmt = conn.createStatement();

                    String sql1 = "INSERT INTO Registration " +
                            "VALUES (100, 'Zara', 'Ali', 18)";
```

```
stmt.executeUpdate(sql1);
sql1 = "INSERT INTO Registration " +
           "VALUES (101, 'Mahnaz', 'Fatma', 25)";
stmt.executeUpdate(sql1);
sql1 = "INSERT INTO Registration " +
           "VALUES (102, 'Zaid', 'Khan', 30)";
stmt.executeUpdate(sql1);
sql1 = "INSERT INTO Registration " +
           "VALUES(103, 'Sumit', 'Mittal', 28)";
stmt.executeUpdate(sql1);
System.out.println("Inserted records into the table...");
System.out.println("4 rows are added... ");
 sql1 = "SELECT id, first, last, age FROM Registration";
 ResultSet rs = stmt.executeQuery(sql1);

 while(rs.next()){
   //Retrieve by column name
   int id = rs.getInt("id");
   int age = rs.getInt("age");
   String first = rs.getString("first");
   String last = rs.getString("last");

   //Display values
   System.out.print("ID: " + id);
```

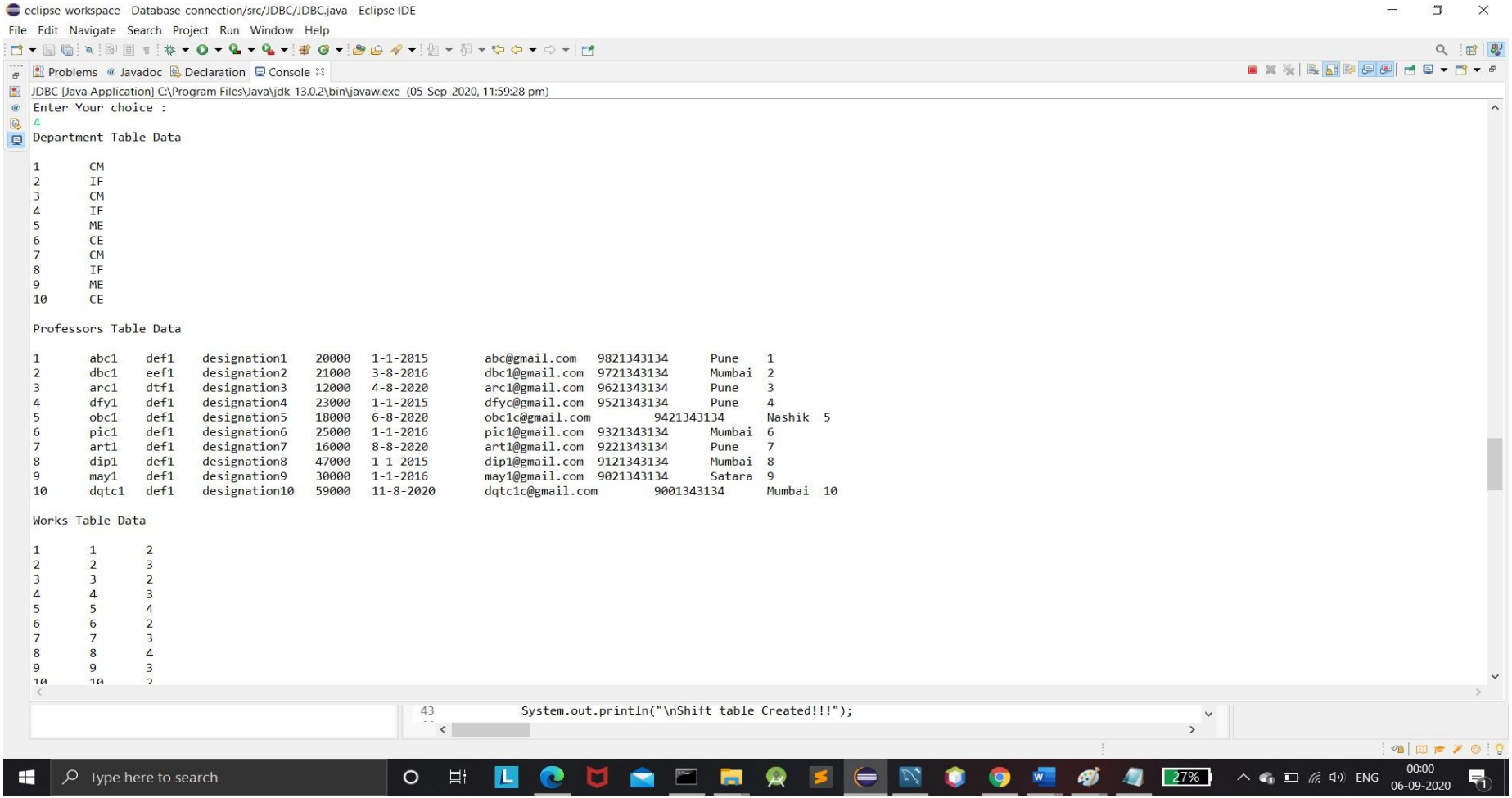
```
                System.out.print(", Age: " + age);
                System.out.print(", First: " + first);
                System.out.println(", Last: " + last);
              }
             break;
case 3: System.out.println("Creating statement...");
              stmt = conn.createStatement();
              String sql11 = "UPDATE Registration " +
                      "SET age = 30 WHERE id in (100, 101)";
              stmt.executeUpdate(sql11);

              // Now you can extract all the records
              // to see the updated records
              System.out.println("Age 30 is Set where Id is 100 and 101 ");
              sql11 = "SELECT id, first, last, age FROM Registration";
              ResultSet rs1 = stmt.executeQuery(sql11);

              while(rs1.next()){
                //Retrieve by column name
                int id = rs1.getInt("id");
                int age = rs1.getInt("age");
                String first = rs1.getString("first");
                String last = rs1.getString("last");
```

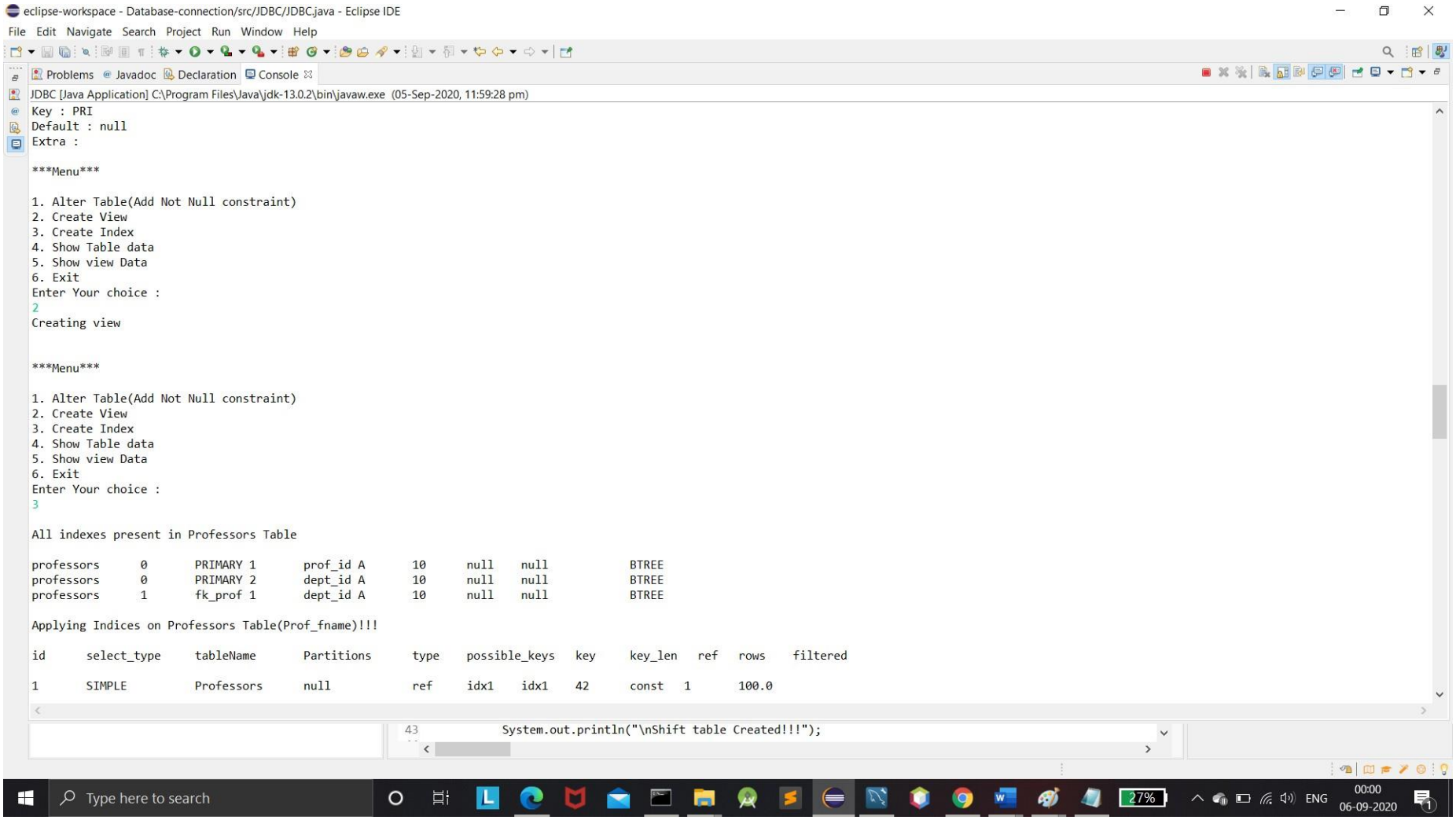
```
                                        //Display values
                                        System.out.print("ID: " + id);
                                        System.out.print(", Age: " + age);
                                        System.out.print(", First: " + first);
                                        System.out.println(", Last: " + last);
                                       }

                    break;
                case 4: System.out.println("Deleting table in given database...");
                    stmt = conn.createStatement();

                    String sql111 = "DROP TABLE REGISTRATION ";

                    stmt.executeUpdate(sql111);
                    System.out.println("Table deleted in given database...");
                    break;
                default: System.out.println("Wrong choice...");
                    break;
                }

                System.out.println("Continue ?");
                ch= input.nextInt();
            }while(ch==1);
```

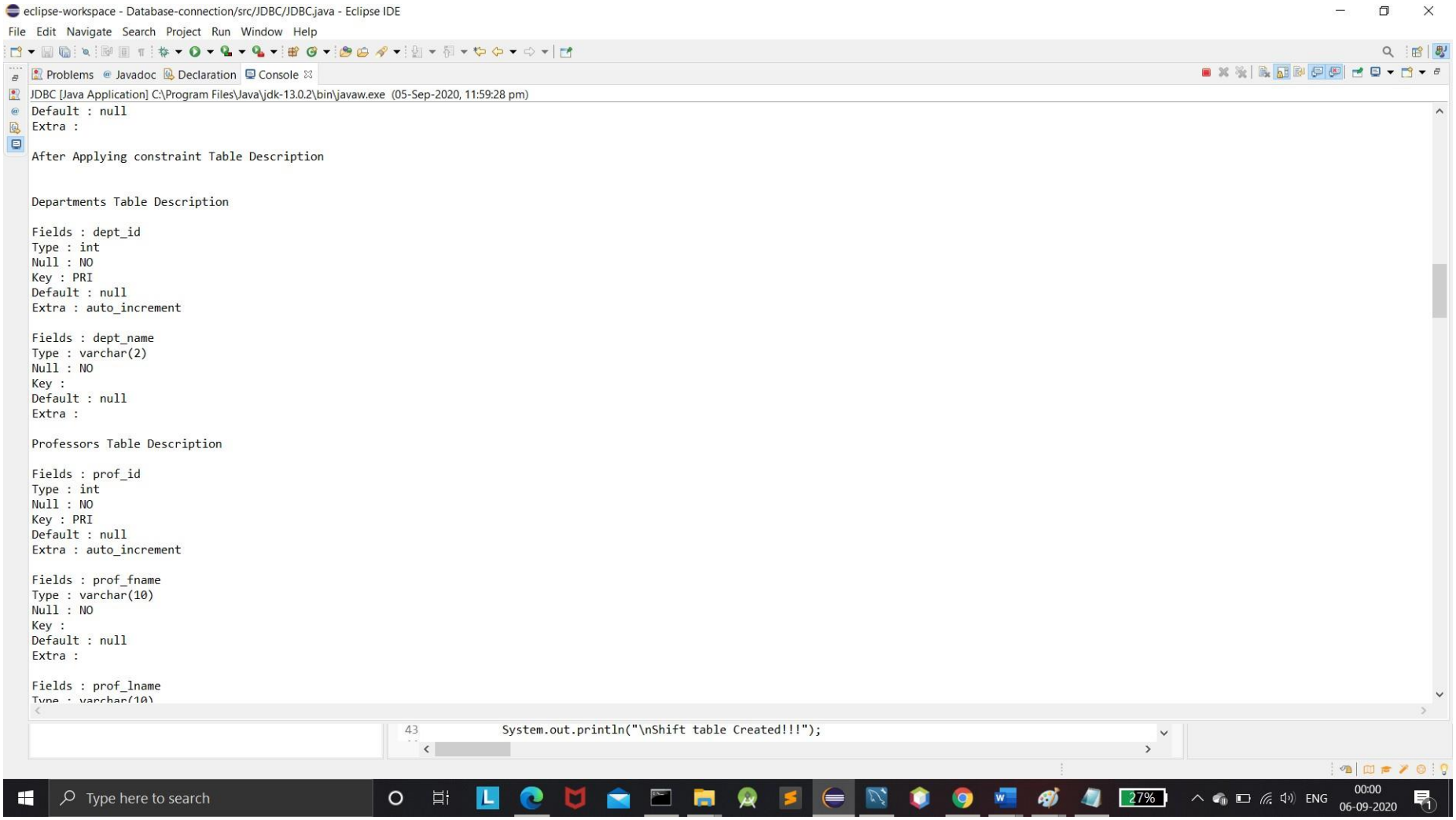
```
}

catch(Exception ex)
{
   ex.printStackTrace();
}
finally{
   if(myRs!=null) {
      myRs.close();}

   if(stmt!=null)
   {
      stmt.close();
   }

   if(conn !=null)
   {
      conn.close();
   }

}
```

```
}//end main

}//end JDBCExample
```

JDBC CODE


eclipse-workspace - Database-connection/src/JDBC/JDBC.java - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Problems Javadoc Declaration Console
JDBC [Java Application] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (05-Sep-2020, 11:59:28 pm)
Enter Your choice :
4
Department Table Data
1 CM
2 IF
3 CM
4 IF
5 ME
6 CE
7 CM
8 IF
9 ME
10 CE
Professors Table Data
1 abc1 def1 designation1 20000 1-1-2015 abc@gmail.com 9821343134 Pune 1
2 dbc1 eef1 designation2 21000 3-8-2016 dbc1@gmail.com 9721343134 Mumbai 2
3 arc1 dtf1 designation3 12000 4-8-2020 arc1@gmail.com 9621343134 Pune 3
4 dfy1 def1 designation4 23000 1-1-2015 dfyc@gmail.com 9521343134 Pune 4
5 obc1 def1 designation5 18000 6-8-2020 obc1c@gmail.com 9421343134 Nashik 5
6 pic1 def1 designation6 25000 1-1-2016 pic1@gmail.com 9321343134 Mumbai 6
7 art1 def1 designation7 16000 8-8-2020 art1@gmail.com 9221343134 Pune 7
8 dip1 def1 designation8 47000 1-1-2015 dip1@gmail.com 9121343134 Mumbai 8
9 may1 def1 designation9 30000 1-1-2016 may1@gmail.com 9021343134 Satara 9
10 dqtc1 def1 designation10 59000 11-8-2020 dqtc1c@gmail.com 9001343134 Mumbai 10
Works Table Data
1 1 2
2 2 3
3 3 2
4 4 3
5 5 4
6 6 2
7 7 3
8 8 4
9 9 3
10 10 2
System.out.println("\nShift table Created!!!");
Type here to search
27%
ENG
00:00
06-09-2020


eclipse-workspace - Database-connection/src/JDBC/JDBC.java - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Problems Javadoc Declaration Console
JDBC [Java Application] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (05-Sep-2020, 11:59:28 pm)
Key : PRI
Default : null
Extra :
Menu
1. Alter Table(Add Not Null constraint)
2. Create View
3. Create Index
4. Show Table data
5. Show view Data
6. Exit
Enter Your choice :
2
Creating view
Menu
1. Alter Table(Add Not Null constraint)
2. Create View
3. Create Index
4. Show Table data
5. Show view Data
6. Exit
Enter Your choice :
3
All indexes present in Professors Table
professors 0 PRIMARY 1 prof_id A 10 null null BTREE
professors 0 PRIMARY 2 dept_id A 10 null null BTREE
professors 1 fk_prof 1 dept_id A 10 null null BTREE
Applying Indices on Professors Table(Prof_fname)!!!
id select_type tableName Partitions type possible_keys key key_len ref rows filtered
1 SIMPLE Professors null ref idx1 idx1 42 const 1 100.0
System.out.println("\nShift table Created!!!");
Type here to search
27%
ENG
00:00
06-09-2020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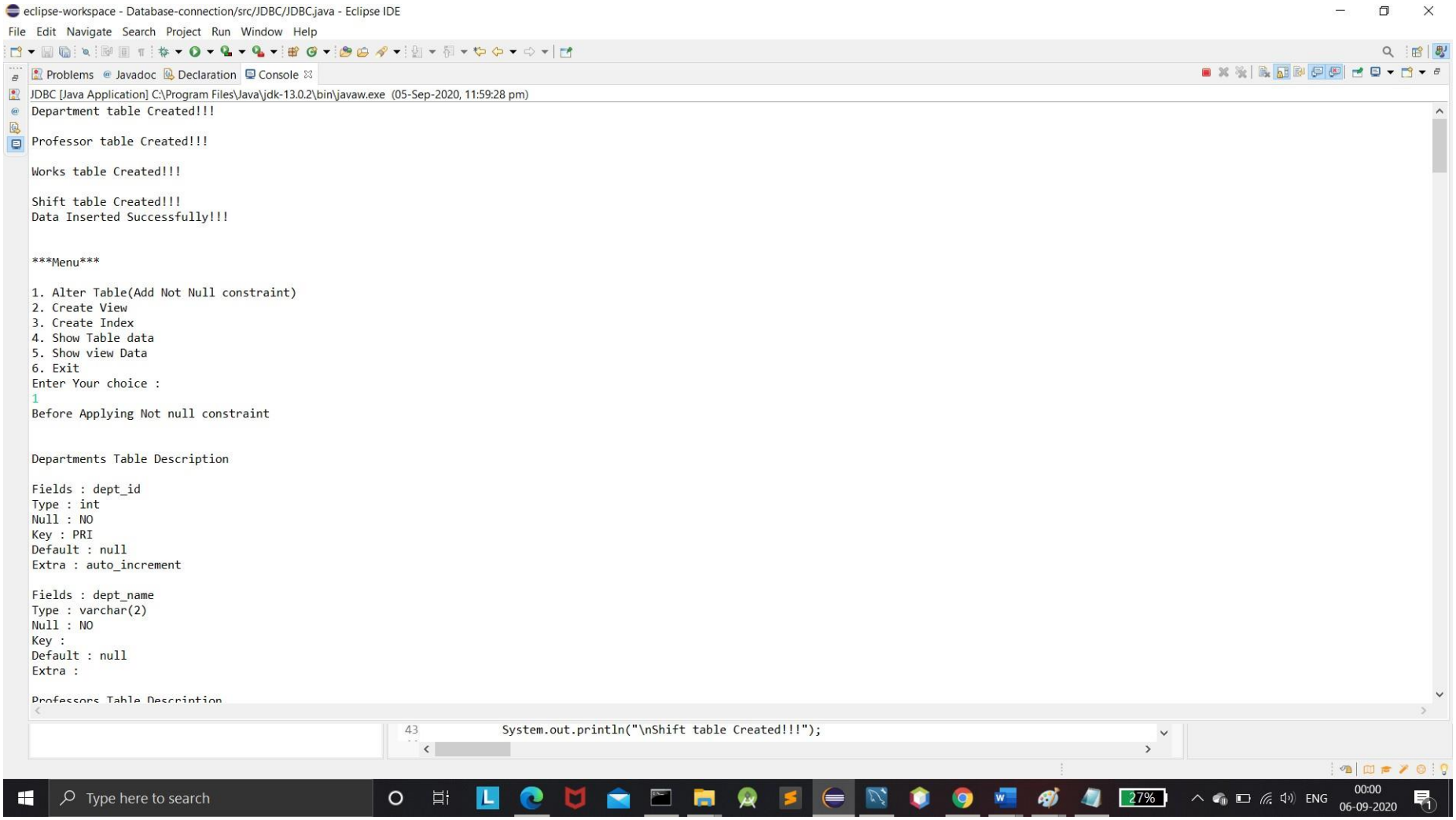
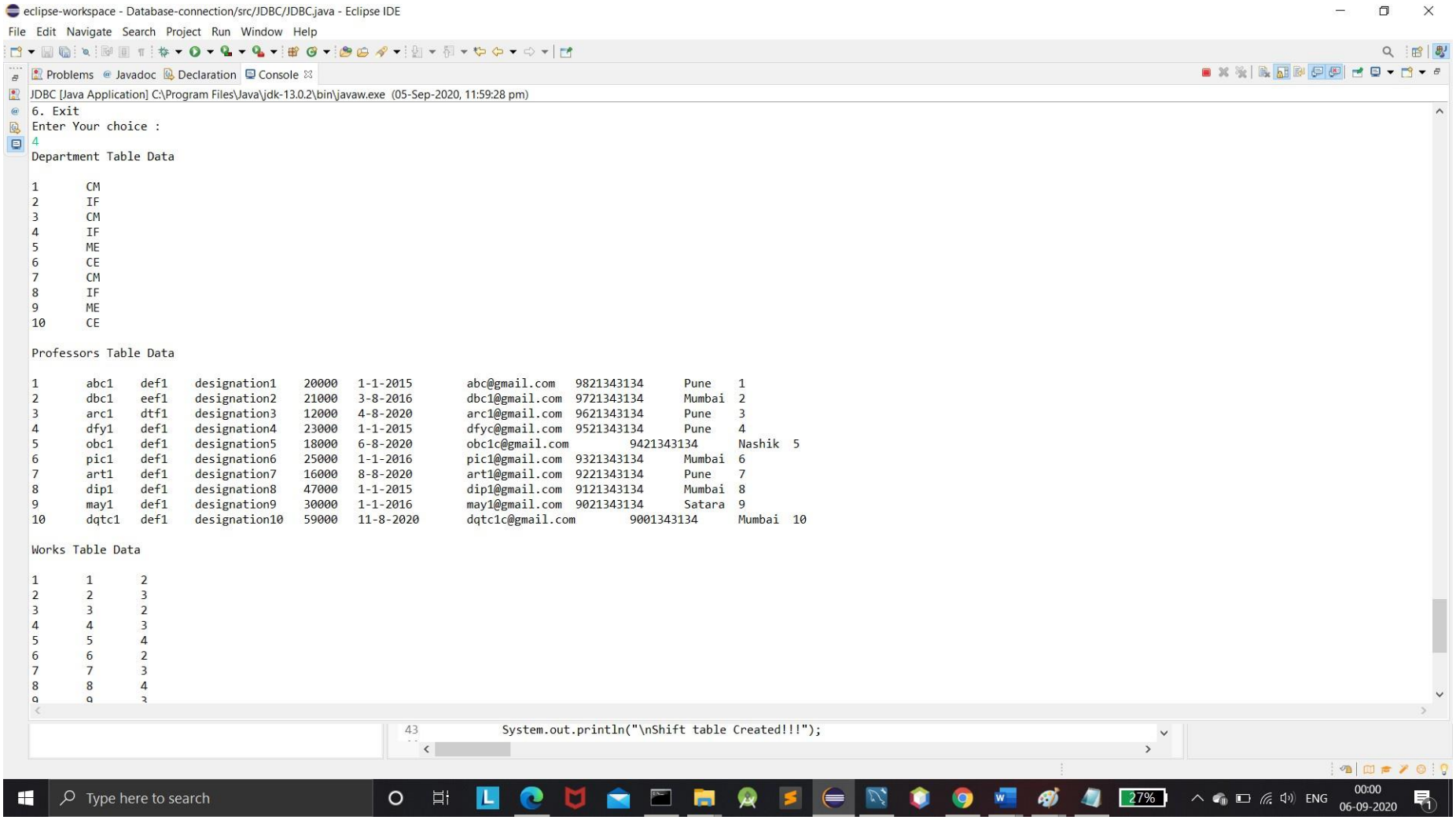
File Edit Navigate Search Project Run Window Help
Problems Javadoc Declaration Console
JDBC [Java Application] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (05-Sep-2020, 11:59:28 pm)
Default : null
Extra :
After Applying constraint Table Description
Departments Table Description
Fields : dept_id
Type : int
Null : NO
Key : PRI
Default : null
Extra : auto_increment
Fields : dept_name
Type : varchar(2)
Null : NO
Key :
Default : null
Extra :
Professors Table Description
Fields : prof_id
Type : int
Null : NO
Key : PRI
Default : null
Extra : auto_increment
Fields : prof_fname
Type : varchar(10)
Null : NO
Key :
Default : null
Extra :
Fields : prof_lname
43 System.out.println("\nShift table Created!!!");
Type here to search
27%
ENG
00:00
06-09-2020


eclipse-workspace - Database-connection/src/JDBC/JDBC.java - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Problems Javadoc Declaration Console
JDBC [Java Application] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (05-Sep-2020, 11:59:28 pm)
Department table Created!!!
Professor table Created!!!
Works table Created!!!
Shift table Created!!!
Data Inserted Successfully!!!
Menu
1. Alter Table(Add Not Null constraint)
2. Create View
3. Create Index
4. Show Table data
5. Show view Data
6. Exit
Enter Your choice :
1
Before Applying Not null constraint
Departments Table Description
Fields : dept_id
Type : int
Null : NO
Key : PRI
Default : null
Extra : auto_increment
Fields : dept_name
Type : varchar(2)
Null : NO
Key :
Default : null
Extra :
Professors Table Description
43 System.out.println("\nShift table Created!!!");
Type here to search
27%
ENG
00:00
06-09-2020


eclipse-workspace - Database-connection/src/JDBC/JDBC.java - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Problems Javadoc Declaration Console
JDBC [Java Application] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (05-Sep-2020, 11:59:28 pm)
6. Exit
Enter Your choice :
4
Department Table Data
1 CM
2 IF
3 CM
4 IF
5 ME
6 CE
7 CM
8 IF
9 ME
10 CE
Professors Table Data
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Works Table Data
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4 4 3
5 5 4
6 6 2
7 7 3
8 8 4
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Type here to search
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ENG
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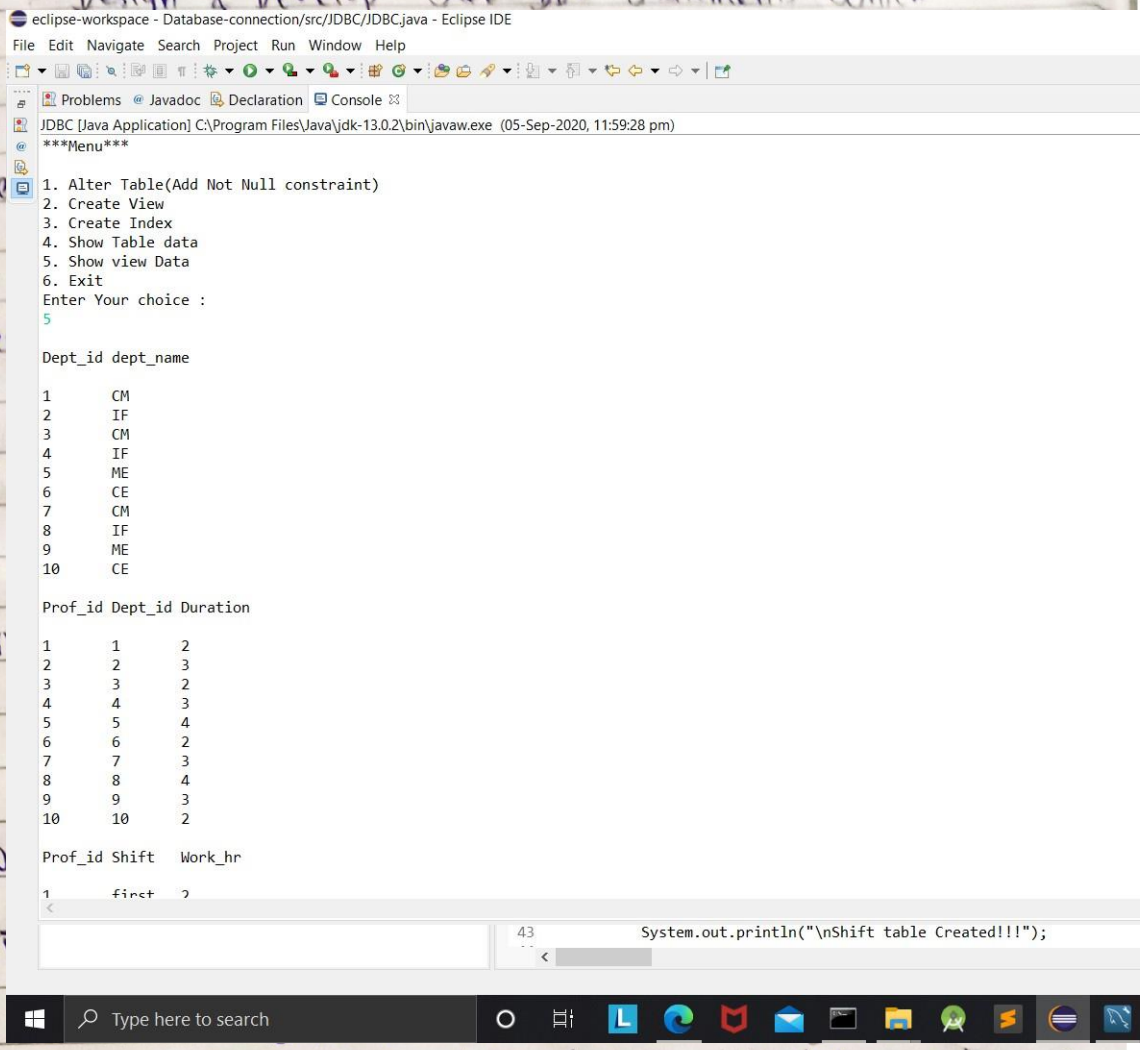
06-09-2020

Assignment No 2

Title - Design & Develop SQL DDL statements which



Language which deals with data schemas & description, of how data can reside in database.

Various commands :

1) Create :- Create table command defines each attribute uniquely.

1) Attribute name
2) Attribute size
3) Data type

Syntax - Create table tablename (A name attributedatatype (size) ..... n);

(2) Altee - Used to altee Data
Syntax - Altee table <table-name> ADD (<newcolumn> <Datatype> <size> .... n)

we can use ADD, DROP, MODIFY as pee convience

(3) Drop - Used to drop table
Syntax - Drop table <table-name>

(4) Truncate - Used to delete values from table.
syntax - Truncate table <table-name>

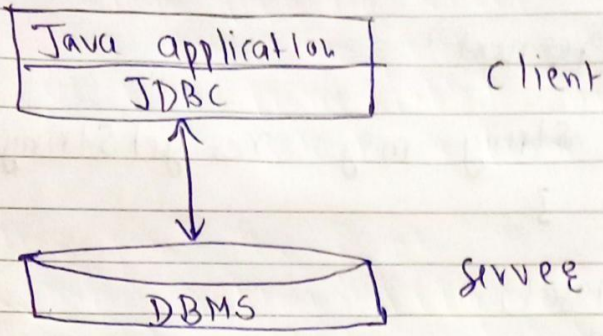
(5) Rename - Rename the table
syntax - Rename <oldName> <NewName

(6) Creating view - Can be created from singleoe mu
Syntax -
Create View view-name as select column1, column2 from tablename where [cond

- Updating a view:
  Views can be updated
  e.g Update Customer view set Age = 35 where name = 'Ramesh'

- Inserting Rows into view
  Same rule by update apply Insert command.

Two-tier & three-tier architecture -



- Following steps involved in the process of connecting to a database & executing query consist following.

1) Import JDBC package
2) Load & register the JDBC Driver.
3) open connection to database.
4) create statement
5) Execute statement
6) process resultset
7) close the resultset & statement objects
8) close connection.

Step 1) import java.sql.*;
Step 2) String url = "jdbc:mysql://192.168.5.101:3306/te
String user = "abc"
String pass = "abc123"
Step 3) Connection conn =
DriverManager.getConnection(url, UserName, pass);
Step 4) Statement sql = conn.createStatement();
ResultSet rset = sql.Stmt.executeQuery
("select * from emp")
Step 5) while (res.next)
{
String msg = res.getString("ename")
}
Step 6) res.close()
Step 7) conn.close()

Conclusion :-

Thus we successfully completed the DDL commands.