DBMS LAB

Name: BHAWANA

Registration ID: 2021PGCACA011

Course: MCA 3rd Semester

Date: 19-08-2022

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Assignment

Question :-

1. Using the information, implement the schema using Transact SQL (show SQL statements for each table). Implement the constraints as well.

2. Create the table shown here in SQL and show the statements you used.

Table: Employee

ATTRIBUTE (FIELD) NAME	DATA DECLARATION
EMP_NUM	CHAR(3)
EMP_LNAME	VARCHAR(15)
EMP_FNAME	VARCHAR(15)
EMP_INITIAL	CHAR(1)
EMP_HIREDATE	DATE
JOB_CODE	CHAR(3)

3. Having created the table structure in question 2, write the SQL code to enter the rows for the table shown below.

EMP_NUM	EMP_LNAME	EMP_FNAME	EMP_INITIAL	EMP_HIREDATE	JOB_CODE
101	News	John	G	08-Nov-00	502
102	Senior	David	H	12-Jul-89	501
103	Arbough	June	E	01-Dec-96	500
104	Ramoras	Anne	K	15-Nov-87	501
105	Johnson	Alice	K	01-Feb-93	502
106	Smithfield	William		22-Jun-04	500
107	Alonzo	Maria	D	10-Oct-93	500
108	Washington	Ralph	B	22-Aug-91	501
109	Smith	Larry	W	18-Jul-97	501

4. Write the SQL code to change the job code to 501 for the person whose personnel number is 107. After you have completed the task, examine the results, and then reset the job code to its original value.

5. Assuming that the data shown in the Employee table have been entered, write the SQL code that lists all attributes for a job code of 502.

6. Write the SQL code to delete the row for the person named William Smithfield, who was hired on June 22, 2004, and whose job code classification is 500. (Hint: Use logical operators to include all the information given in this problem.)

7. Add the attributes EMP_PCT and PROJ_NUM to the Employee table. The EMP_PCT is the bonus percentage to be paid to each employee.

8. Using a single command, write the SQL code that will enter the project number (PROJ_NUM) = 18 for all employees whose job classification (JOB_CODE) is 500.

9. Using a single command, write the SQL code that will enter the project number (PROJ_NUM) = 25 for all employees whose job classification (JOB_CODE) is 502 or higher.

10. Write the SQL code that will change the PROJ_NUM to 14 for those employees who were hired before January 1, 1994, and whose job code is at least 501. (You may assume that the table will be restored to its original condition preceding this question.)

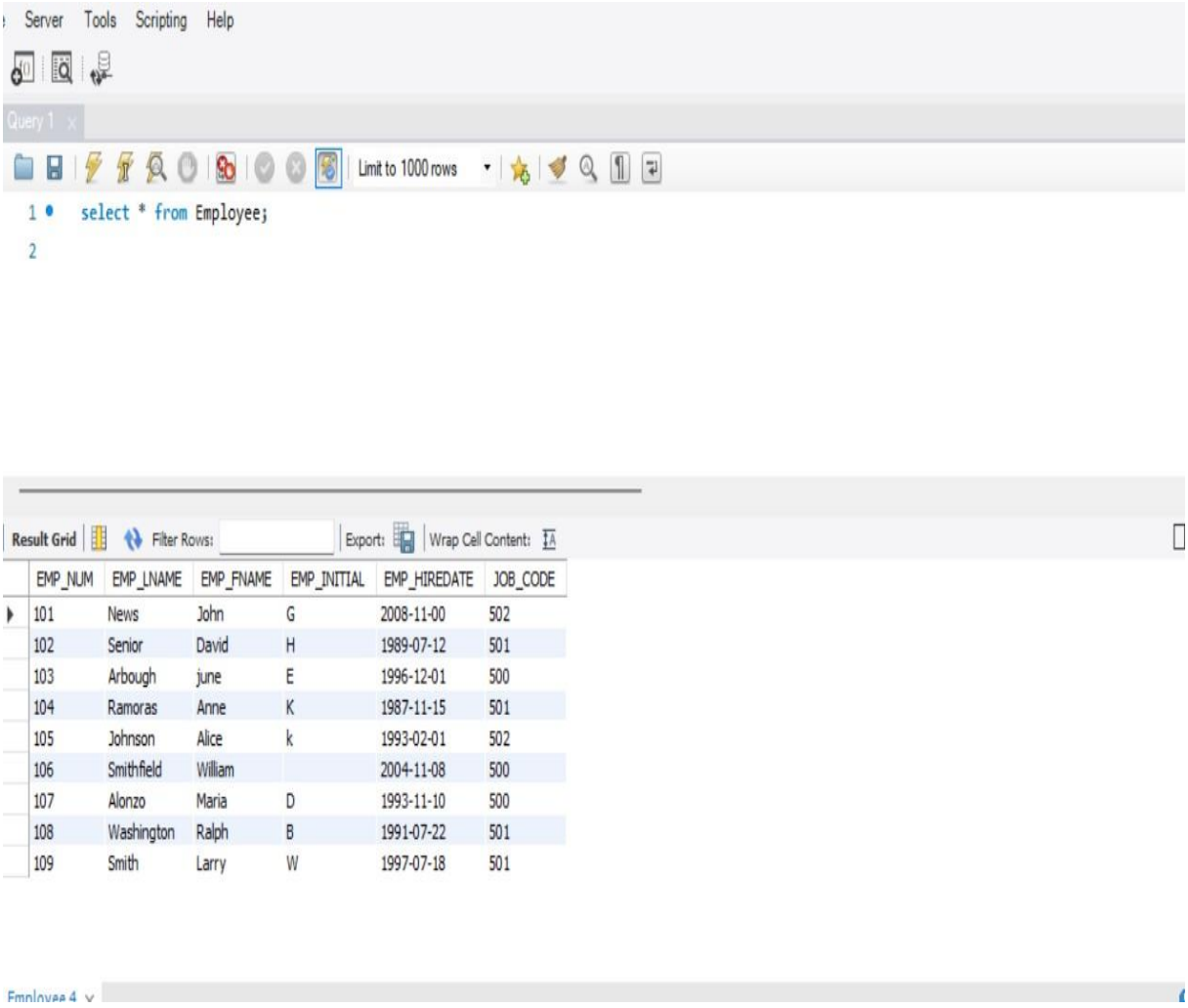
ANSWER 2: CREATE INTO TABLE.

```
create table Employee(
 EMP_NUM CHAR(3),
 EMP_LNAME VARCHAR(15),
 EMP_FNAME VARCHAR(15),
 EMP_INITIAL CHAR(1),
 EMP_HIREDATE DATE,
 JOB_CODE CHAR(3)
 );
```

ANSWER 3: INSERT INTO TABLE .

```
INSERT INTO Employee VALUES(
102,'Senior','David','H','89-07-12',501
);
INSERT INTO Employee VALUES(
103,'Arbough','june','E','96-12-01',500
);
INSERT INTO Employee VALUES(
104,'Ramoras','Anne','K','87-11-15',501
);
INSERT INTO Employee VALUES(
105,'Johnson','Alice','k','93-02-01',502
);
INSERT INTO Employee VALUES(
106,'Smithfield','William',' ','04-11-08',500
);
INSERT INTO Employee VALUES(
107,'Alonzo','Maria','D','93-11-10',500
);
INSERT INTO Employee VALUES(
108,'Washington','Ralph','B','91-07-22',501
);
INSERT INTO Employee VALUES(
109,'Smith','Larry','W','97-07-18',501
);
```

.TABLE:-

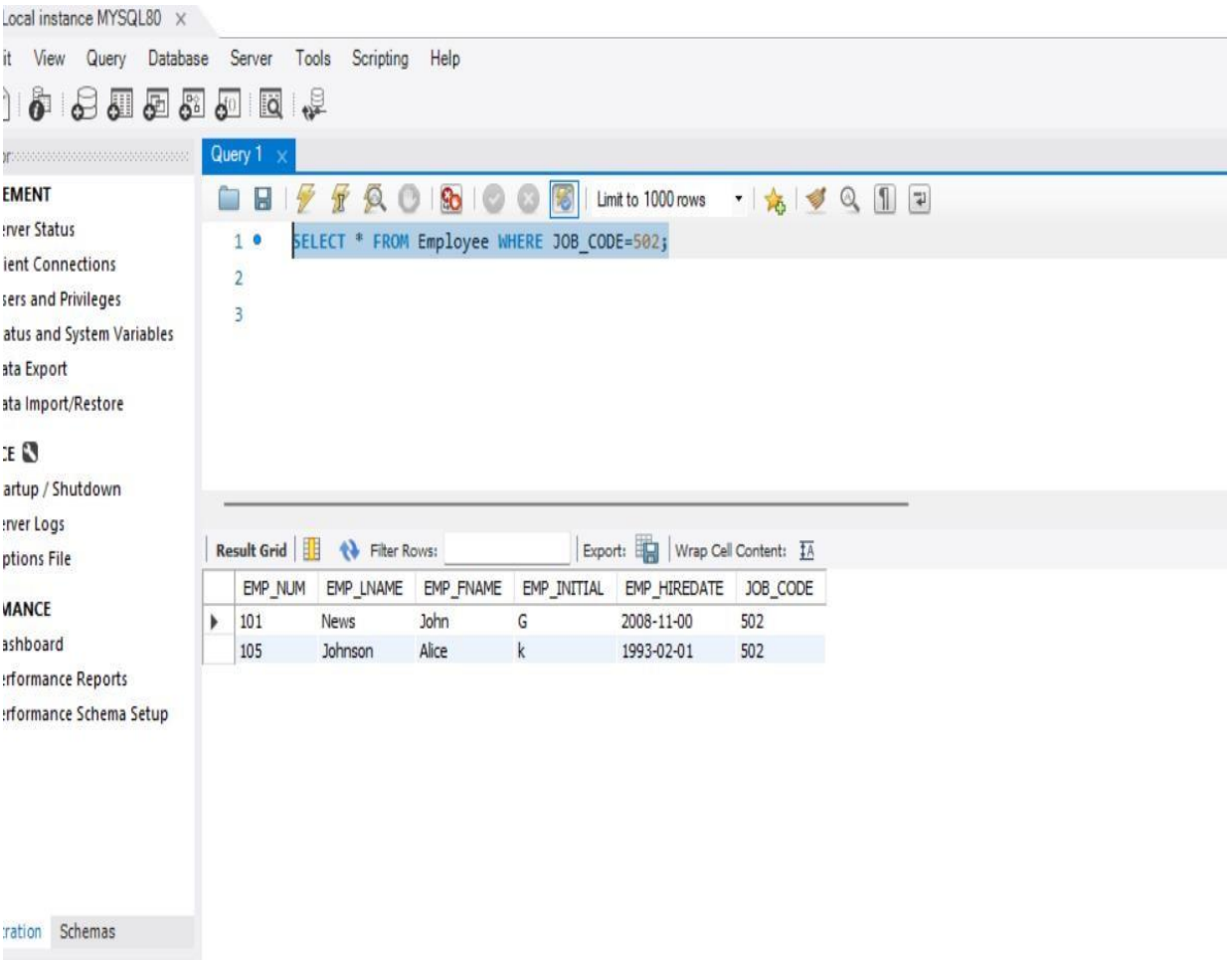


ANSWER 4:

UPDATE Employee SET
JOB_CODE=501 where EMP_NUM=107;

ANSWER 5:

SELECT * FROM Employee WHERE JOB_CODE=502;



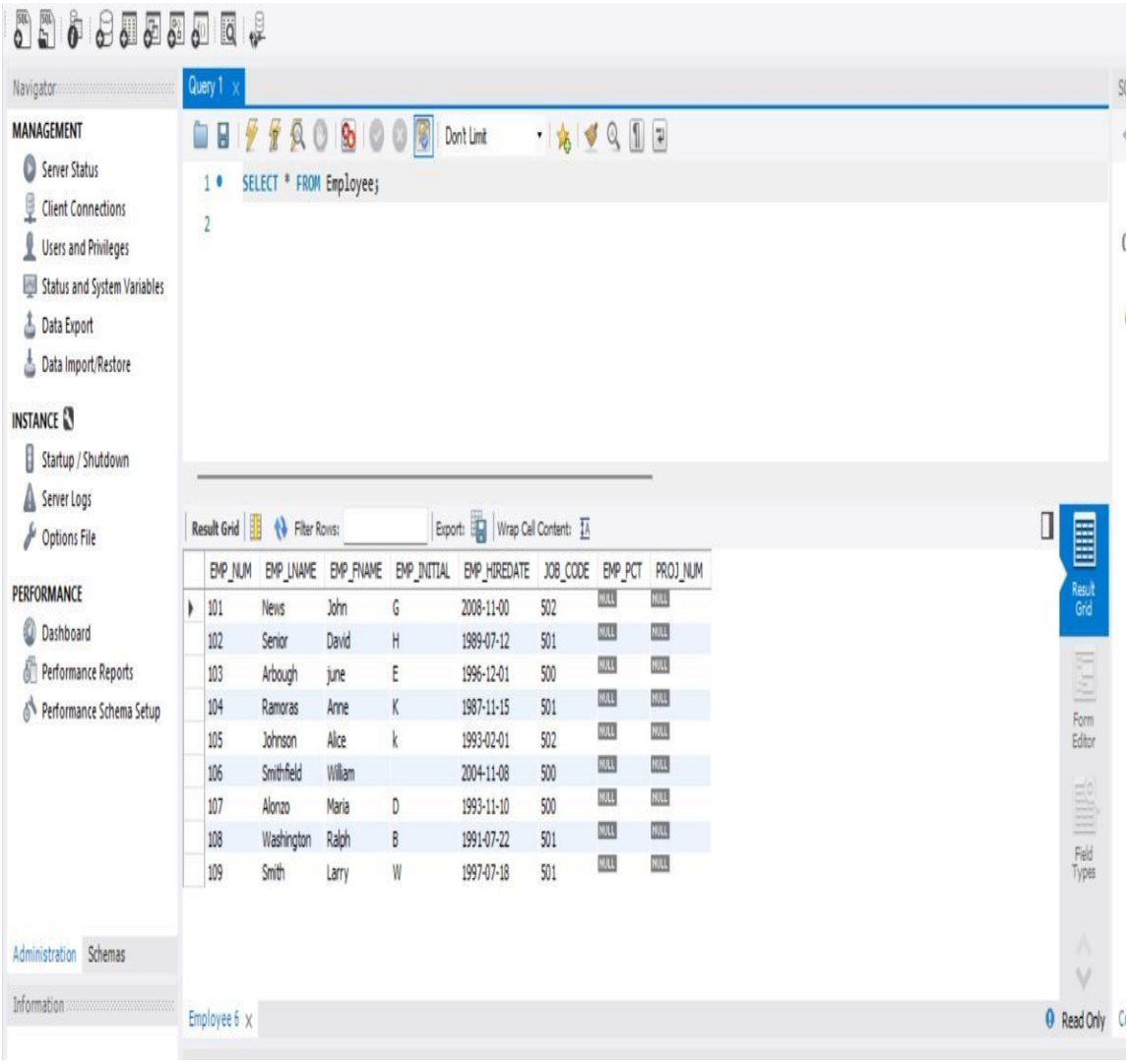
ANSWER : 6

ELETE FROM Employee WHERE EMP_LNAME='William' || EMP_HIREDATE='04-11-08' || JOB_CODE=500;

ANSWER :7

- ALTER TABLE Employee ADD EMP_PCT INT;
- ALTER TABLE Employee ADD PROJ_NUM INT;

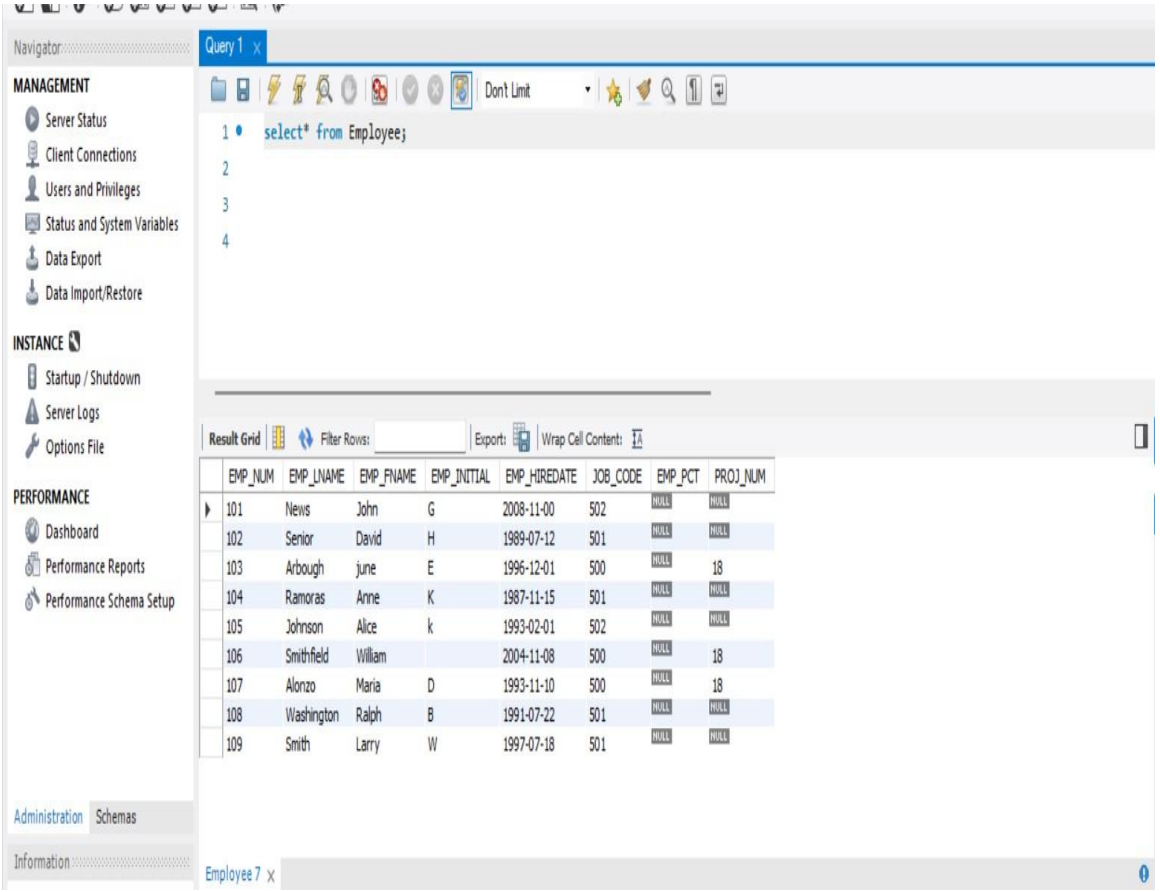
OUTPUT:-



ANSWER 8:

UPDATE Employee SET PROJ_NUM = 18 where JOB_CODE = '500';

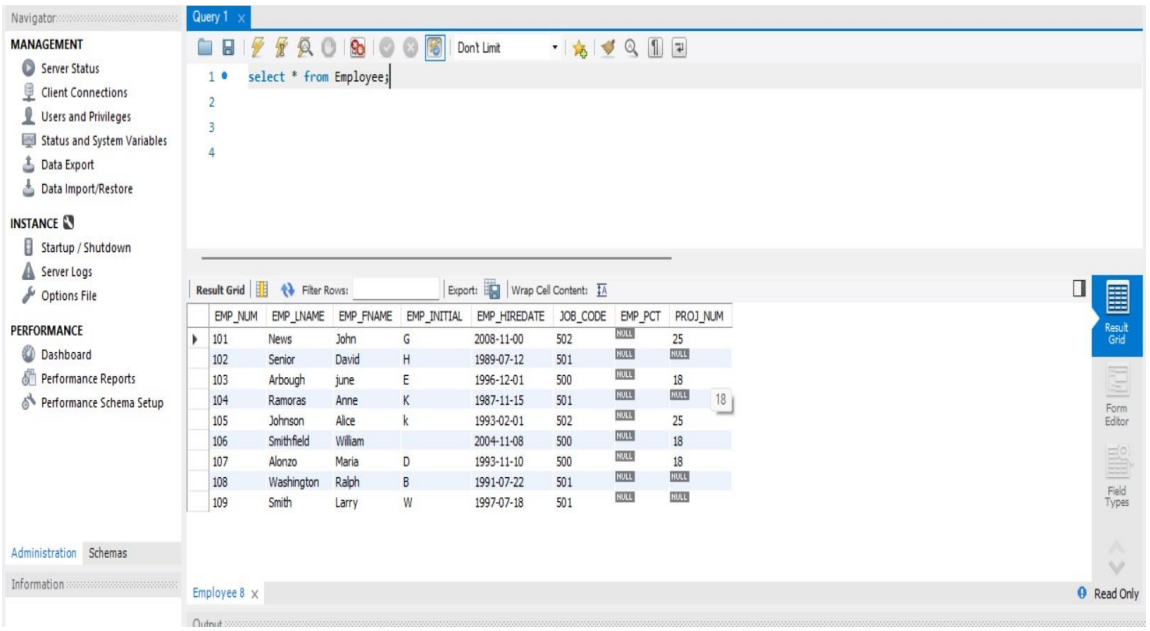
SELECT * FROM Employee;



ANSWER 9:

UPDATE Employee SET PROJ_NUM = 25 where JOB_CODE >= '502';

SELECT * FROM Employee;



ANSWER 10:

UPDATE Employee SET PROJ_NUM = 14 where EMP_HIREDATE < '1994-01-01' AND JOB_CODE >= '501';

SELECT * FROM Employee;