

ASSIGNMENT – 02 (DBMS LAB)

❖ **PROBLEM:**

Create a table student_rollno having attribute full_name, last_name, roll_no, ph_no and insert values.

➤ **PROGRAM:**

```
create table Ranjan_093(Full_name varchar2(30),Last_name varchar2(30),roll_no
number(30),ph_no number(30));
```

✓ **OUTPUT:**

Table created.

➤ **PROGRAM:**

```
Describe Ranjan_093;
```

✓ **OUTPUT:**

Object Type **TABLE** Object **RANJAN_093**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>RANJAN_093</u>	<u>FULL_NAME</u>	Varchar2	30	-	-	-	✓	-	-
	<u>LAST_NAME</u>	Varchar2	30	-	-	-	✓	-	-
	<u>ROLL_NO</u>	Number	-	30	0	-	✓	-	-
	<u>PH_NO</u>	Number	-	30	0	-	✓	-	-
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➤ **PROGRAM:**

```
begin
```

```
insert into Ranjan_093 values('Ranjan','Jana',6,6294924389);
```

```
insert into Ranjan_093 values('Shirsendu','Maondal',10,8149865539);
```

```
insert into Ranjan_093 values('Sanjoy','Manna',1,8145213539);
```

```
insert into Ranjan_093 values('Sampad','Kar',2,9735462501);
```

```
insert into Ranjan_093 values('Sourav','Mondal',3,6294434285);
```

```
insert into Ranjan_093 values('Biswadeep','Das',4,7865985636);
```

```
insert into Ranjan_093 values('Pallab','Das',5,6294305542);
```

```
insert into Ranjan_093 values('Rana','Biswas',7,8569475634);
```

```
insert into Ranjan_093 values('Sujoy','Manna',8,8145790424);
```

```
insert into Ranjan_093 values('Samir','Maity',9,9933384757);
```

```
end
```

✓ **OUTPUT:**

Statement processed.

➤ **PROGRAM:**

```
Select * from ranjan_093;
```

✓ **OUTPUT:**

FULL_NAME	LAST_NAME	ROLL_NO	PH_NO
Ranjan	Jana	6	6294924389
Shirsendu	Maondal	10	8149865539
Sanjoy	Manna	1	8145213539
Sampad	Kar	2	9735462501
Sourav	Mondal	3	6294434285
Biswadeep	Das	4	7865985636
Pallab	Das	5	6294305542
Rana	Biswas	7	8569475634
Sujoy	Manna	8	8145790424
Samir	Maity	9	9933384757

❖ **PROBLEM:**

Add a column dob in the above table.

➤ **PROGRAM:**

```
alter table ranjan_093 add DOB varchar2(38);
```

✓ **OUTPUT:**

Table altered.

➤ **PROGRAM:**

```
Describe Ranjan_093;
```

✓ **OUTPUT:**

Object Type TABLE Object RANJAN_093

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RANJAN_093	<u>FULL_NAME</u>	Varchar2	30	-	-	-	✓	-	-
	<u>LAST_NAME</u>	Varchar2	30	-	-	-	✓	-	-
	<u>ROLL_NO</u>	Number	-	30	0	-	✓	-	-
	<u>PH_NO</u>	Number	-	30	0	-	✓	-	-
	<u>DOB</u>	Varchar2	38	-	-	-	✓	-	-

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❖ PROBLEM:

Increase the size of last_name attribute by 10 in the above table.

➤ **PROGRAM:**

```
alter table ranjan_093 modify Last_name varchar2(40);
```

✓ **OUTPUT:**

Table altered.

➤ **PROGRAM:**

Describe Ranjan 093;

✓ **OUTPUT:**

Object Type TABLE Object RANJAN_093

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RANJAN_093	FULL_NAME	Varchar2	30	-	-	-	✓	-	-
	LAST_NAME	Varchar2	40	-	-	-	✓	-	-
	ROLL_NO	Number	-	30	0	-	✓	-	-
	PH_NO	Number	-	30	0	-	✓	-	-
	DOB	Varchar2	38	-	-	-	✓	-	-

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❖ **PROBLEM:**

Delete the ph_no attribute from the above table.

➤ **PROGRAM:**

```
alter table ranjan_093 drop column ph_no;
```

✓ **OUTPUT:**

Table dropped.

➤ **PROGRAM:**

```
Describe Ranjan_093;
```

✓ **OUTPUT:**

Object Type TABLE Object RANJAN_093

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RANJAN_093	<u>FULL NAME</u>	Varchar2	30	-	-	-	✓	-	-
	<u>LAST NAME</u>	Varchar2	40	-	-	-	✓	-	-
	<u>ROLL NO</u>	Number	-	30	0	-	✓	-	-
	<u>DOB</u>	Varchar2	38	-	-	-	✓	-	-
1 - 4									

❖ **PROBLEM:**

Delete the dob attribute from the above table.

➤ **PROGRAM:**

```
alter table ranjan_jana drop column dob;
```

✓ **OUTPUT:**

Table dropped.

➤ **PROGRAM:**

```
Describe Ranjan_093;
```

✓ **OUTPUT:**

Object Type TABLE Object RANJAN_093

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RANJAN_093	<u>FULL NAME</u>	Varchar2	30	-	-	-	✓	-	-
	<u>LAST NAME</u>	Varchar2	40	-	-	-	✓	-	-
	<u>ROLL NO</u>	Number	-	30	0	-	✓	-	-
1 - 3									

❖ **PROBLEM:**

Add dept_id attribute in the above table.

➤ **PROGRAM:**

```
alter table ranjan_jana add Dept_id varchar2(30);
```

➤ **PROGRAM:**

```
Describe Ranjan_093;
```

✓ **OUTPUT:**

Object Type TABLE Object RANJAN_093

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RANJAN_093	FULL_NAME	Varchar2	30	-	-	-	✓	-	-
	LAST_NAME	Varchar2	40	-	-	-	✓	-	-
	ROLL_NO	Number	-	30	0	-	✓	-	-
	DEPT_ID	Varchar2	30	-	-	-	✓	-	-
									1 - 4

❖ **PROBLEM:**

Permanently delete the student_name table.

➤ **PROGRAM:**

drop table ranjan_jana;

✓ **OUTPUT:**

Table dropped.

ASSIGNMENT – 03 (DBMS LAB)

❖ **PROBLEM:**

Create a table student_roll_no and insert 30 values.

➤ **PROGRAM:**

```
create table ranjan_091(student_id varchar2(30),student_name varchar2(30),course_name
varchar2(30),stream varchar2(30),section varchar2(30),blood_group
varchar2(30),date_of_admission varchar2(30),primary key(student_id));
```

✓ **OUTPUT:**

Table created.

➤ **PROGRAM:**

```
Describe ranjan_091;
```

✓ **OUTPUT:**

Object Type TABLE Object RANJAN_091

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
RANJAN_091	STUDENT_ID	Varchar2	30	-	-	1	-	-	-
	STUDENT_NAME	Varchar2	30	-	-	-	✓	-	-
	COURSE_NAME	Varchar2	30	-	-	-	✓	-	-
	STREAM	Varchar2	30	-	-	-	✓	-	-
	SECTION	Varchar2	30	-	-	-	✓	-	-
	BLOOD_GROUP	Varchar2	30	-	-	-	✓	-	-
	DATE_OF_ADMISSION	Varchar2	30	-	-	-	✓	-	-

➤ **PROGRAM:**

```
begin
```

```
insert into ranjan_091 values('BWU/BTS/20/091','Ranjan Jana','DATA SCIENCE','B.TECH CSE','A','B+', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/092','Sayan Krmakar','DATA SCIENCE','B.TECH CSE','C','A+', '01/07/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/093','sayan Dutta','AI','B.TECH CSE','C','B+', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/094','Shilpa Ojha','AI','B.TECH CSE','B','AB', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/095','Sarolipi Pal','DATA SCIENCE','B.TECH CSE','C','A+', '01/07/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/096','Sampad Kar','AI','B.TECH CSE','A','A+', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/097','Sanjoy Mannna','DATA SCIENCE','B.TECH CSE','B','AB', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/098','Raja Maity','AI','B.TECH CSE','B','A+', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/099','Swarup Jana','DATA SCIENCE','B.TECH CSE','A','AB', '01/07/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/100','Bishwanath Jana','DATA SCIENCE','B.TECH CSE','C','B+', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/101','Suvadip Bera','AI','B.TECH CSE','B','B+', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/102','Furquan Mazity','DATA SCIENCE','B.TECH CSE','C','B+', '01/07/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/103','Soumyaip Pal','DATA SCIENCE','B.TECH CSE','A','AB', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/104','Rahul Debnath','DATA SCIENCE','B.TECH CSE','C','B+', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/105','Sourav Roy','AI','B.TECH CSE','A','A+', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/106','Bikram Bera','AI','B.TECH CSE','C','A+', '11/08/2022');
```

```
insert into ranjan_091 values('BWU/BTS/20/107','Prabin Jha','DATA SCIENCE','B.TECH CSE','C','AB', '01/07/2022');
```

```

insert into ranjan_091 values('BWU/BTS/20/108','Prasun Jana','AI','B.TECH CSE','A','B+', '11/08/2022')B

insert into ranjan_091 values('BWU/BTS/20/109','Palash Bera','DATA SCIENCE','B.TECH CSE','B','A+', '01/07/2022');

insert into ranjan_091 values('BWU/BTS/20/110','Guddu Mallik','DATA SCIENCE','B.TECH CSE','C','B+', '11/08/2022');

insert into ranjan_091 values('BWU/BTS/20/111','olivia Jana','AI','B.TECH CSE','B','B+', '01/07/2022');

insert into ranjan_091 values('BWU/BTS/20/112','Alfred Novel','DATA SCIENCE','B.TECH CSE','B','AB', '11/08/2022');

insert into ranjan_091 values('BWU/BTS/20/113','Mamata Chowdhury','AI','B.TECH CSE','A','B+', '11/08/2022');

insert into ranjan_091 values('BWU/BTS/20/114','Sweta Ojha','DATA SCIENCE','B.TECH CSE','C','B+', '01/07/2022');

insert into ranjan_091 values('BWU/BTS/20/115','Sayak Panda','DATA SCIENCE','B.TECH CSE','A','AB', '11/08/2022');

insert into ranjan_091 values('BWU/BTS/20/116','Bisa Bhuima','AI','B.TECH CSE','A','B+', '01/07/2022');

insert into ranjan_091 values('BWU/BTS/20/117','Md Azad','DATA SCIENCE','B.TECH CSE','C','B+', '11/08/2022');

insert into ranjan_091 values('BWU/BTS/20/118','Diptesh Biswas','AI','B.TECH CSE','A','A+', '11/08/2022');

insert into ranjan_091 values('BWU/BTS/20/119','kavaya Singh','AI','B.TECH CSE','C','A+', '01/07/2022');

insert into ranjan_091 values('BWU/BTS/20/120','rai','DATA SCIENCE','B.TECH CSE','B','AB', '11/08/2022');

end

```

✓ **OUTPUT:**

Statement processed.

❖ **PROBLEM:**

Select student_id,student_name from student_roll no.

➤ **PROGRAM:**

select student_id,student_name from ranjan_091;

✓ **OUTPUT:**

STUDENT_ID	STUDENT_NAME
BWU/BTS/20/091	Ranjan Jana
BWU/BTS/20/092	Sayan Krmakar
BWU/BTS/20/093	sayan Dutta
BWU/BTS/20/094	Shilpa Ojha
BWU/BTS/20/095	sarolipi Pal
BWU/BTS/20/096	Sampad Kar
BWU/BTS/20/097	Sanjoy Mannna
BWU/BTS/20/098	Raja Maity
BWU/BTS/20/099	Swarup Jana
BWU/BTS/20/100	Bishwanath Jana
BWU/BTS/20/101	Suvadip Bera
BWU/BTS/20/102	Furquan Mazity
BWU/BTS/20/103	Soumyaip Pal
BWU/BTS/20/104	Rahul Debnath
BWU/BTS/20/105	Sourav Roy
BWU/BTS/20/106	Bikram Bera
BWU/BTS/20/107	Prabin Jha
BWU/BTS/20/108	Prasun Jana
BWU/BTS/20/109	Palash Bera
BWU/BTS/20/110	Guddu Mallik
BWU/BTS/20/111	olivia Jana
BWU/BTS/20/112	Alfred Novel
BWU/BTS/20/113	Mamata Chowdhury
BWU/BTS/20/114	Sweta Ojha
BWU/BTS/20/115	Sayak Panda
BWU/BTS/20/116	Bisa Bhuima
BWU/BTS/20/117	Md Azad
BWU/BTS/20/118	Diptesh Biswas
BWU/BTS/20/119	kavaya Singh
BWU/BTS/20/120	ruhan debnath

❖ **PROBLEM:**

Select student_id, student_name, stream from student_roll no.

➤ **PROGRAM:**

select student_id, student_name, stream from ranjan_091;

✓ **OUTPUT:**

STUDENT_ID	STUDENT_NAME	STREAM
BWU/BTS/20/091	Ranjan Jana	B.TECH CSE
BWU/BTS/20/092	Sayan Krmakar	B.TECH CSE
BWU/BTS/20/093	sayan Dutta	B.TECH CSE
BWU/BTS/20/094	Shilpa Ojha	B.TECH CSE
BWU/BTS/20/095	sarolipi Pal	B.TECH CSE
BWU/BTS/20/096	Sampad Kar	B.TECH CSE
BWU/BTS/20/097	Sanjoy Mannna	B.TECH CSE
BWU/BTS/20/098	Raja Maity	B.TECH CSE
BWU/BTS/20/099	Swarup Jana	B.TECH CSE
BWU/BTS/20/100	Bishwanath Jana	B.TECH CSE
BWU/BTS/20/101	Suvadip Bera	B.TECH CSE
BWU/BTS/20/102	Furquan Mazity	B.TECH CSE
BWU/BTS/20/103	Soumyaip Pal	B.TECH CSE
BWU/BTS/20/104	Rahul Debnath	B.TECH CSE
BWU/BTS/20/105	Sourav Roy	B.TECH CSE
BWU/BTS/20/106	Bikram Bera	B.TECH CSE
BWU/BTS/20/107	Prabin Jha	B.TECH CSE
BWU/BTS/20/108	Prasun Jana	B.TECH CSE
BWU/BTS/20/109	Palash Bera	B.TECH CSE
BWU/BTS/20/110	Guddu Mallik	B.TECH CSE
BWU/BTS/20/111	olivia Jana	B.TECH CSE
BWU/BTS/20/112	Alfred Novel	B.TECH CSE
BWU/BTS/20/113	Mamata Chowdhury	B.TECH CSE
BWU/BTS/20/114	Sweta Ojha	B.TECH CSE
BWU/BTS/20/115	Sayak Panda	B.TECH CSE
BWU/BTS/20/116	Bisa Bhuima	B.TECH CSE
BWU/BTS/20/117	Md Azad	B.TECH CSE
BWU/BTS/20/118	Diptesh Biswas	B.TECH CSE
BWU/BTS/20/119	kavaya Singh	B.TECH CSE
BWU/BTS/20/120	ruhan debnath	B.TECH CSE

❖ **PROBLEM:**

Add an attribute Aadhaar card in the above table & update list according to the table.

➤ **PROGRAM:**

alter table ranjan_091 add adhaar_card varchar2(30);

✓ **OUTPUT:**

Table altered.

➤ **PROGRAM:**

update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/091';

update ranjan_091 set adhaar_no='8520 7383 2565' where student_id='BWU/BTS/20/092';

update ranjan_091 set adhaar_no='6529 5333 4065' where student_id='BWU/BTS/20/093';

update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/094';

update ranjan_091 set adhaar_no='8520 7383 2565' where student_id='BWU/BTS/20/095';

update ranjan_091 set adhaar_no='6529 5333 4065' where student_id='BWU/BTS/20/096';

update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/097';

update ranjan_091 set adhaar_no='6529 5333 4065' where student_id='BWU/BTS/20/098';

update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/099';

```

update ranjan_091 set adhaar_no='8520 7383 2565' where student_id='BWU/BTS/20/100';
update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/101';
update ranjan_091 set adhaar_no='6529 5333 4065' where student_id='BWU/BTS/20/102';
update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/103';
update ranjan_091 set adhaar_no='8520 7383 2565' where student_id='BWU/BTS/20/104';
update ranjan_091 set adhaar_no='6529 5333 4065' where student_id='BWU/BTS/20/105';
update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/106';
update ranjan_091 set adhaar_no='8520 7383 2565' where student_id='BWU/BTS/20/107';
update ranjan_091 set adhaar_no='6529 5333 4065' where student_id='BWU/BTS/20/108';
update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/109';
update ranjan_091 set adhaar_no='8520 7383 2565' where student_id='BWU/BTS/20/110';
update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/111';
update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/112';
update ranjan_091 set adhaar_no='8520 9758 5065' where student_id='BWU/BTS/20/113';
update ranjan_091 set adhaar_no='8520 7383 2565' where student_id='BWU/BTS/20/114';
update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/115';
update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/116';
update ranjan_091 set adhaar_no='5029 5333 4065' where student_id='BWU/BTS/20/117';
update ranjan_091 set adhaar_no='8520 7383 2565' where student_id='BWU/BTS/20/118';
update ranjan_091 set adhaar_no='6529 5333 4065' where student_id='BWU/BTS/20/119';
update ranjan_091 set adhaar_no='8520 7383 2565' where student_id='BWU/BTS/20/120';

```

❖ **PROBLEM:**

Show the student_id, student_name who are belonging to data science.

PROGRAM:

```
select student_id, student_name from ranjan_091 where course_name='DATA SCIENCE';
```

✓ **OUTPUT:**

STUDENT_ID	STUDENT_NAME
BWU/BTS/20/091	Ranjan Jana
BWU/BTS/20/092	Sayan Krmakar
BWU/BTS/20/095	sarolipi Pal
BWU/BTS/20/097	Sanjoy Mannna
BWU/BTS/20/099	Swarup Jana
BWU/BTS/20/100	Bishwanath Jana
BWU/BTS/20/102	Furquan Mazity
BWU/BTS/20/103	Soumyaip Pal
BWU/BTS/20/104	Rahul Debnath
BWU/BTS/20/107	Prabin Jha
BWU/BTS/20/109	Palash Bera
BWU/BTS/20/110	Guddu Mallik
BWU/BTS/20/112	Alfred Novel
BWU/BTS/20/114	Sweta Ojha
BWU/BTS/20/115	Sayak Panda
BWU/BTS/20/117	Md Azad
BWU/BTS/20/120	ruhan debnath

❖ **PROBLEM:**

Show the name of the students who are belonging to blood group A+.

➤ **PROGRAM:**

```
select student_name from ranjan_091 where blood_group='A+';
```

✓ **OUTPUT:**

STUDENT_NAME
Sayan Krmakar
sarolipi Pal
Sampad Kar
Raja Maity
Sourav Roy
Bikram Bera
Palash Bera
Diptesh Biswas
kavaya Singh

❖ **PROBLEM:**

Show the name of the students who are belonging to admission date of 01/07/2022.

➤ **PROGRAM:**

```
select student_name from ranjan_091 where date_of_admission='01/07/2022';
```

✓ **OUTPUT:**

STUDENT_NAME
Sayan Krmakar
sarolipi Pal
Swarup Jana
Furquan Mazity
Prabin Jha
Palash Bera
olivia Jana
Sweta Ojha
Bisa Bhuima
kavaya Singh

❖ **PROBLEM:**

➤ **PROGRAM:**

```
select student_id,adhaar_no from ranjan_091;
```

STUDENT_ID	ADHAAR_NO
BWU/BTS/20/091	5029 5333 4065
BWU/BTS/20/092	8520 7383 2565
BWU/BTS/20/093	6529 5333 4065
BWU/BTS/20/094	5029 5333 4065
BWU/BTS/20/095	8520 7383 2565
BWU/BTS/20/096	6529 5333 4065
BWU/BTS/20/097	5029 5333 4065
BWU/BTS/20/098	6529 5333 4065
BWU/BTS/20/099	5029 5333 4065
BWU/BTS/20/100	8520 7383 2565
BWU/BTS/20/101	5029 5333 4065
BWU/BTS/20/102	6529 5333 4065
BWU/BTS/20/103	5029 5333 4065
BWU/BTS/20/104	8520 7383 2565
BWU/BTS/20/105	6529 5333 4065
BWU/BTS/20/106	5029 5333 4065
BWU/BTS/20/107	8520 7383 2565
BWU/BTS/20/108	6529 5333 4065
BWU/BTS/20/109	5029 5333 4065
BWU/BTS/20/110	8520 7383 2565
BWU/BTS/20/111	5029 5333 4065
BWU/BTS/20/112	5029 5333 4065
BWU/BTS/20/113	8520 9758 5065
BWU/BTS/20/114	8520 7383 2565
BWU/BTS/20/115	5029 5333 4065
BWU/BTS/20/116	5029 5333 4065
BWU/BTS/20/117	5029 5333 4065
BWU/BTS/20/118	8520 7383 2565
BWU/BTS/20/119	6529 5333 4065
BWU/BTS/20/120	8520 7383 2565

❖ PROBLEM:

➤ PROGRAM:

select student_name from ranjan_091 where stream='B.TECH CSE' and course_name='AI' and section='B';

✓ OUTPUT:

STUDENT_NAME
Shilpa Ojha
Raja Maity
Suvadip Bera
olivia Jana