# DATABASE MANAGEMENT SYSTEM SEMESTER- IV LAB SHEET- 04

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PRN: 20220802071

Batch: A2

**Aim:** Create a database of any college and include tables.

## **Requirements:**

1. MySQL [Software]

## Theory:

Create a database of any college and include the following tables:

#### Student

Sr.	PRN	Name	Year of	Course	Grade	Subject	Durati	Cre	Year
No			Admiss			Name	on of	dit	
			ion				course		
1	XX	XX	2020	BCA	A	AI	3	6	I
2				MBA	В	Maths	2	4	II
3				CSE	F	Data	4	6	I
						Science			
							· · · · · · · · · · · · · · · · · · ·		

### Course

Course-id	Name	Fee	Duration in year

- 1. Create a student table of minimum of 20 entries according to the below queries and a course table of minimum of 5 entries.(Note: prepare database so that at least 3 entries will get for queries, refer above table for references. Students can update the fields the same)
- 2. List all those students who opted for the CSE course.
- 3. List all those students who opted for CSE and MBA courses.
- 4. List all those courses whose fee is greater than that of the BBA course.

- 5. List all students who got grades A
- 6. List all students who got grade A in BCA in 2020
- 7. Find a list of students who took admissions in the year 2022.
- 8. List courses of credit 6
- 9. List courses of credit 6 and 8
- 10.Drop the Duration of course column from the student database.
- 11.Update Row 5 with Name Ram Kumar, course BBA Subject Maths (fill other data of your choice)
- 12. Assign Primary key to right field.
- 13.List all the entries of the subject AI.
- 14.List all students whose duration of course is greater than or equal to 3.
- 15. Fire 5 queries of your choices
  - a. List all those students with subject eco and math.
  - b. List all those students who took admission in 2020 in the aesc order of their name.
  - c. List all those students whose name start with letter 'r'.
  - d. List all those students who are studying in 1st year.
  - e. List all those students with credit 8 and studying in 3rd year.

Sr_no	PRN	Name	Year_of_admission		Grade	Subject_name	Duration_of_course	Credit	Year
1	2071	Neeraj Chormale	2022		Α	ACM	2	9	2
2	2072	Manas Shetty	2022	CSE	A	ICS	1	8	2
3	2058	Shobhit Dhami	2022	CSE	B	ESD	2	8	2
4	2069	Rohit Kumbhar	2022	CSE	A	ACM	2	7	2
5	2051	Atharva Phadatare	2022	CSE	A	ICS	1	8	2
6	2065	Onkar Yaglewad	2022	CSE	В	ESD	2	7	2
7	2048	Kiran Biradar	2022	Bio	A	HP	2	8	2
8	2034	Chris Parmar	2022	Bio	A	HP	2	9	3
9	2043	Suryakant Upadhyay		Bio	A	EVS	2	8	2
10	2003	Harsh Brahmecha	2022	Bio	B	EVS	2	9	2
11	2393	Niraj There	2023	BCA	A	IP	2	8	1
12	2067	Vignesh	2021	BCA	В	IP	] 2	8	3
13	2077	Abhijeet	2022	BCA	A	IP	] 2	8	2
14	2080	Tanay Mane	2022	MCA	A	IOT	1	8	2
15	2090	Aryan	2021	MCA	B	IOT	1	] 7	3
16	2091	Nitish	2021	MCA	ļΑ	IOT	] 1	8	3
17		Pratik	2023	MCA	ļΑ	IOT	] 1	8	1
18	2093	Ishan	2023	MCA	B	IOT	1	7	1
19		Diljit	2022	CSE	A	ACM	1	8	1
20	2095	Om	2022	BIO	A	HP	1	8	1

r_no	PRN	Name	Year_of_admission	Course	Grade	Subject_name	Duration_of_course	Credit	Year
1	2071	Neeraj Chormale	2022	CSE	A	ACM	2	9	2
2	2072	Manas Shetty	2022	CSE	A	ICS	1	8	2
3	2058	Shobhit Dhami	2022	CSE	В	ESD	2	8	2
4	2069	Rohit Kumbhar	2022	CSE	Α	ACM	2	7	2
5	2051	Atharva Phadatare	2022	CSE	Α	ICS	1	8	2
6	2065	Onkar Yaglewad	2022	CSE	В	ESD	2	7	2
19	2094	Diljit	2022	CSE	A	ACM	1	8	1
	+	+ 0.00 sec)	<del> </del>	·	+	+		+	+

mysql> SELECT \* FROM course WHERE Fee > 180000; Course\_id | Name | Fee | Duration\_in\_year | 111 | CSE | 200000 | 4 | 1 row in set (0.00 sec) nysql> SELECT \* FROM student WHERE Grade = "A"; Sr\_no | PRN | Name | Year\_of\_admission | Course | Grade | Subject\_name | Duration\_of\_course | Credit | Year | Mame Meeraj Chormale Manas Shetty Rohit Kumbhar Atharva Phadatare Kiran Biradar Chris Parmar Suryakant Upadhyay Miraj There Abijeet Tanay Mane Nitish Pratik Diljit Om 1 | 2 | 4 | 5 | 7 | 8 | 9 | 11 | 13 | 14 | 16 | 17 | 19 | 20 | 2071 2072 2069 2051 2048 2034 2043 2393 2077 2080 2091 2092 2094 2095 CSE CSE CSE Bio Bio BCA BCA MCA MCA CSE BIO ACM ICS ACM ICS HP EVS IP IOT IOT ACM HP

14 rows in set (0.00 sec)

mysql> SELECT \* FROM student WHERE Grade = "A" AND Course ="BCA" AND Year = 2022; Empty set (0.00 sec)

mysql> SELECT \* FROM student WHERE Grade = "A" AND Course ="BCA" AND Year = "2022"; Empty set (0.00 sec) SELECT \* FROM student WHERE Grade = "A" AND Course ="BCA" AND Year\_of\_admission = 2022;

Sr\_no | PRN | Name 13 | 2077 | Abhijeet | 2022 | BCA | A

1 row in set (0.00 sec)

mysql>|

mysql> SELECT \* FROM student WHERE Credit = 7;

1	Sr_no	PRN	Name	Year_of_admission	Course	Grade	Subject_name	Duration_of_course	Credit	Year
i	4	2069	Rohit Kumbhar	2022	CSE	A	ACM	2	7	2
1	6	2065	Onkar Yaglewad	2022	CSE	B	ESD	2	7	2
1	15	2090	Aryan	2021	MCA	B	IOT	1	7	3
1	18	2093	Ishan	2023	MCA	В	IOT	1	7	1

4 rows in set (0.00 sec)

mysql> SELECT \* FROM student WHERE Credit = 7 OR Credit = 9;

Sr_no	PRN	Name	Year_of_admission	Course	Grade	Subject_name	Duration_of_course	Credit	Year
1 1	2071	Neeraj Chormale	2022	CSE	   А	ACM		9	   2
j 4 j	2069	Rohit Kumbhar	2022	CSE	İΑ	ACM	j 2	7	j 2
6	2065	Onkar Yaglewad	2022	CSE	В	ESD	j 2	7	2
8	2034	Chris Parmar	2022	Bio	A	HP	j 2	9	3
10	2003	Harsh Brahmecha	2022	Bio	В	EVS	] 2	9	2
15	2090	Aryan	2021	MCA	B	IOT	1	7	3
18	2093	Ishan	2023	MCA	В	IOT	1	7	1
+			+		+	·	+	+	+

7 rows in set (0.00 sec)

mysql>

```
mysql> UPDATE student SET Name = "Raj Kum
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
                                                             "Raj Kumar" WHERE Name = "Om";
 mvsal> select * from student:
                            Name
    Sr_no | PRN
                                                                     Year_of_admission | Course | Grade
                                                                                                                                        Subject_name | Duration_of_course | Credit | Year
                               Neeraj Chormale
Manas Shetty
Shobhit Dhami
Rohit Kumbhar
                   2071
         2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
                  2072
2058
2069
2051
2065
2048
2034
2003
2393
2067
2077
2080
2090
2091
2092
2093
                                                                                             CSE
CSE
CSE
CSE
Bio
Bio
BCA
BCA
MCA
MCA
MCA
MCA
CSE
                                                                                                                          A B A A B A A B A A B A A B A A
                                                                                                                                        ICS
ESD
ACM
ICS
ESD
HP
HP
                                                                                                                                                                                                                   8878789898888788788
                             Shobhat Dham:
Rohit Kumbhar
Atharva Phadatare
Onkar Yaglewad
Kiran Biradar
Chris Parmar
Suryakant Upadhyay
Harsh Brahmecha
Niraj There
Vignesh
Abhijeet
Tanay Mane
Aryan
Nitish
Pratik
Ishan
Diljit
Raj Kumar
                                                                                                                                        EVS
EVS
IP
IP
IOT
IOT
IOT
IOT
                  2094
                                                                                             2022
                  2095
20 rows in set (0.00 sec)
mysql>
 Sr_no | PRN
                            | Name
                                                     | Year_of_admission | Course | Grade | Subject_name | Duration_of_course | Credit | Year
                  2080
2090
2091
                               Tanay Mane
Aryan
Nitish
                                                                                 2022
2021
2021
                                                                                             MCA
MCA
MCA
MCA
                                                                                                                              10T
10T
10T
10T
10T
         14
15
16
17
18
                                                                                                               А
В
А
В
                                                                                                                                                                                                            8
7
8
8
7
                  2092
2093
                               Pratik
Ishan
                                                                                 2023
2023
    rows in set (0.01 sec)
mysql>|
mysql> SELECT * FROM student WHERE year >=2;
   Sr_no | PRN
                          Name
                                                                   | Year_of_admission | Course | Grade | Subject_name | Duration_of_course | Credit | Year |
                              Neeraj Chormale
Manas Shetty
Shobhit Dhami
Rohit Kumbhar
Atharva Phadatare
Onkar Yaglewad
Kiran Biradar
Chris Parmar
                                                                                                                                          ACM
ICS
                                                                                              CSE
CSE
CSE
CSE
Bio
Bio
Bio
BCA
BCA
           123456789
                                                                                                                           AABAABAABBAABA
                                                                                                                                                                                                                      988787898988878
                 2072
2058
2069
2051
2065
2048
2034
2043
                                                                                                                                          ESD
ACM
ICS
ESD
HP
EVS
EVS
IP
IOT
IOT
                               Suryakant Upadhyay
Harsh Brahmecha
Vignesh
Abhijeet
                  2043 |
2003 |
2067 |
2077 |
2080 |
2090 |
          10
12
13
14
15
16
                              Tanay Mane
Aryan
Nitish
                                                                                                          MCA
MCA
MCA
15 rows in set (0.00 sec)
mysql>
  nysql> SELECT * FROM student WHERE Subject_name = "IOT" or Subject_name = "ACM";
    Sr_no | PRN
                            Name
                                                               | Year_of_admission | Course | Grade | Subject_name | Duration_of_course | Credit | Year
                              Neeraj Chormale
Rohit Kumbhar
Tanay Mane
Aryan
Nitish
Pratik
Ishan
Diljit
                   2071
2069
                                                                                           2022
2022
                                                                                                                                       ACM
IOT
IOT
IOT
IOT
IOT
                                                                                                                        AAABAABA
                                                                                                                                                                                                                            2 2 3 3 1 1 1
                                                                                                        CSE
                  2089
2080
2090
2091
2092
2093
                                                                                                       MCA
MCA
MCA
MCA
MCA
CSE
                                                                                           2022
2021
         14
15
16
17
18
                                                                                           2021
2023
2023
          19
                   2094
                                                                                           2022
                                                                                                                                       ACM
 8 rows in set (0.00 sec)
mysql>
mysql> SELECT * FROM student WHERE Year_of_admission = 2021 ORDER BY Name ASC;
   Sr_no | PRN | Name
                                                                   | Year_of_admission | Course |
                                                                                                                                       | Subject_name | Duration_of_course
                                                                                                                                                                                                         | Credit | Year
                                                                                                                           Grade
         15
16
9
12
                                                                                                                                         IOT
IOT
EVS
IP
                  2090
2091
                               Aryan
Nitish
                                                                                              2021
2021
                                                                                                          MCA
MCA
                                                                                                                                                                                                                     7 |
8 |
8 |
8 |
                                                                                                                           B
A
A
B
                  2043
2067
                               Suryakant Upadhyay
Vignesh
                                                                                              2021
2021
                                                                                                          Bio
BCA
4 rows in set (0.01 sec)
 mysql>
```

mysql> SELECT \* FROM student WHERE Name LIKE "%R";

-4			<del></del>		+					
į	Sr_no	PRN	Name	Year_of_admission	Course	Grade	Subject_name	Duration_of_course	Credit	Year
ì	4	2069	Rohit Kumbhar	2022	CSE	A	ACM	2	7	2
١	7	2048	Kiran Biradar	2022	Bio	l A	HP	2	8	2
ı	8	2034	Chris Parmar	2022	Bio	l A	HP	2	9	3
1	20	2095	Raj Kumar	2022	BIO	A	HP	1	8	1

4 rows in set (0.00 sec)

mysql> SELECT \* FROM student WHERE Year ="2";

Sr	_no	PRN	Name	Year_of_admission	Course	Grade	Subject_name	Duration_of_course	Credit	Year
i	1	2071	Neeraj Chormale	2022	CSE	l A	ACM	2	9	2
l i	2 j	2072	Manas Shetty	2022	CSE	İΑ	ICS	j 1	8	j 2
İ	3	2058	Shobhit Dhami	2022	CSE	B	ESD	] 2	8	2
İ	4	2069	Rohit Kumbhar	2022	CSE	A	ACM	] 2	7	2
1	5	2051	Atharva Phadatare	2022	CSE	ΙA	ICS	1	8	2
1	6	2065	Onkar Yaglewad	2022	CSE	B	ESD	] 2	7	2
1	7	2048	Kiran Biradar	2022	Bio	ΙA	HP	] 2	8	2
1	9	2043	Suryakant Upadhyay	2021	Bio	ΙA	EVS	] 2	8	2
1	10	2003	Harsh Brahmecha	2022	Bio	B	EVS	2	9	2
T	13	2077	Abhijeet	2022	BCA	A	IP	2	8	2
1	14	2080	Tanay Mane	2022	MCA	A	IOT	1	8	2

11 rows in set (0.00 sec)

mysql>|

mysql> SELECT \* FROM student WHERE Credit = "8" AND Year ="2";

	+	+			·	<b>+</b>	+	+	+	+
I.	Sr_no	PRN	Name	Year_of_admission	Course	Grade	Subject_name	Duration_of_course	Credit	Year
ľ	2	2072	Manas Shetty	2022	CSE	A	ICS	1	8	2
	3	2058	Shobhit Dhami	2022	CSE	B	ESD	] 2	8	2
	5	2051	Atharva Phadatare	2022	CSE	A	ICS	1	8	2
	7	2048	Kiran Biradar	2022	Bio	A	HP	] 2	8	2
	9	2043	Suryakant Upadhyay	2021	Bio	A	EVS	] 2	8	2
	13	2077	Abhijeet	2022	BCA	ΙA	IP	] 2	8	2
	14	2080	Tanay Mane	2022	MCA	A	IOT	1	8	2
							4		4	

7 rows in set (0.00 sec)

mysql> ALTER TABLE student DROP COLUMN Duration\_of\_course; Query OK, 0 rows affected (0.06 sec) Records: 0 Duplicates: 0 Warnings: 0

Sr_no	PRN	Name	Year_of_admission	Course	Grade	Subject_name	Credit	Year
1 1	2071	Neeraj Chormale	2022	CSE	A	ACM	   9	T   2
2	2072	Manas Shetty	2022	CSE	ΙA	ICS	8	2
3	2058	Shobhit Dhami	2022	CSE	B	ESD	8	2
4	2069	Rohit Kumbhar	2022	CSE	A	ACM	7	2
5	2051	Atharva Phadatare	2022	CSE	A	ICS	8	2
6	2065	Onkar Yaglewad	2022	CSE	B	ESD	7	2
7	2048	Kiran Biradar	2022	Bio	A	HP .	8	2
8	2034	Chris Parmar	2022	Bio	A	HP	9	3
9	2043	Suryakant Upadhyay	2021	Bio	A	EVS	8	2
10	2003	Harsh Brahmecha	2022	Bio	B	EVS	9	2
11	2393	Niraj There	2023	BCA	A	IP	8	1
12	2067	Vignesh	2021	BCA	B	IP	8	3
13	2077	Abhijeet	2022	BCA	A	IP	8	2
14	2080	Tanay Mane	2022	MCA	A	IOT	8	2
15	2090	Aryan	2021	MCA	B	IOT	7	3
16	2091	Nitish	2021	MCA	A	IOT	8	3
17	2092	Pratik	2023	MCA	A	IOT	8	1
18	2093	Ishan	2023	MCA	В	IOT	7	1
19	2094	Diljit	2022	CSE	ΙA	ACM	8	1
20	2095	Raj Kumar	2022	BIO	A	HP	8	1

20 rows in set (0.00 sec)