

1 DBMSL Assignment No 2 A  
2 Name - Himanshu Vijay Lonkar  
3 Roll No - C31149  
4 Batch - T3

5  
6 Output -

7  
8 17.Create Database and show database.

9  
10 mysql> create database University;  
11  
12 Query OK, 1 row affected (0.01 sec)

13  
14 mysql> show databases;  
15 +-----+  
16 | Database |  
17 +-----+  
18 | basic |  
19 | information\_schema |  
20 | mysql |  
21 | performance\_schema |  
22 | sys |  
23 | university |  
24 +-----+  
25 6 rows in set (0.00 sec)

26  
27 18.Create tables and show tables.

28  
29 mysql> use University;  
30 Database changed  
31 mysql> create table Department(dept\_no int,dept\_name varchar(80)  
32 UNIQUE,building\_name varchar(30));  
33 Query OK, 0 rows affected (0.05 sec)

34 mysql> desc Department;  
35 +-----+-----+-----+-----+-----+-----+  
36 | Field | Type | Null | Key | Default | Extra |  
37 +-----+-----+-----+-----+-----+-----+  
38 | dept\_no | int | YES | | NULL | |  
39 | dept\_name | varchar(80) | YES | UNI | NULL | |  
40 | building\_name | varchar(30) | YES | | NULL | |  
41 +-----+-----+-----+-----+-----+-----+  
42 3 rows in set (0.01 sec)

43  
44 mysql> create table Instructor(ins\_id int,ins\_name varchar(80) NOT NULL,dept\_no  
45 int,salary int,mob\_no int(15),Primary Key(ins\_id));  
46 Query OK, 0 rows affected, 1 warning (0.03 sec)

47 mysql> desc Instructor;  
48 +-----+-----+-----+-----+-----+-----+  
49 | Field | Type | Null | Key | Default | Extra |  
50 +-----+-----+-----+-----+-----+-----+  
51 | ins\_id | int | NO | PRI | NULL | |  
52 | ins\_name | varchar(80) | NO | | NULL | |  
53 | dept\_no | int | YES | | NULL | |  
54 | salary | int | YES | | NULL | |  
55 | mob\_no | int | YES | | NULL | |  
56 +-----+-----+-----+-----+-----+-----+  
57 5 rows in set (0.00 sec)

58  
59 mysql> create table Course(course\_id int,title varchar(100),dept\_no int,credits  
60 varchar(20));  
61 Query OK, 0 rows affected (0.03 sec)

62 mysql> desc Course;  
63 +-----+-----+-----+-----+-----+-----+  
64 | Field | Type | Null | Key | Default | Extra |  
65 +-----+-----+-----+-----+-----+-----+  
66 | course\_id | int | YES | | NULL | |

```

67 | title      | varchar(100) | YES | | NULL | |
68 | dept_no    | int          | YES | | NULL | |
69 | credits    | varchar(20)  | YES | | NULL | |
70 +-----+-----+-----+-----+-----+-----+
71 4 rows in set (0.00 sec)
72
73 mysql> create table Teaches(teacher_id int,course_id int,semester int,year
74 varchar(30),foreign key(teacher_id) references Instructor(ins_id),foreign key(cou
75 rse_id) references Course(course_id));
76 ERROR 1822 (HY000): Failed to add the foreign key constraint. Missing index for
77 constraint 'teaches_ibfk_2' in the referenced table 'course'
78
79 mysql> alter table Course add Primary Key(course_id);
80 Query OK, 0 rows affected (0.06 sec)
81 Records: 0 Duplicates: 0 Warnings: 0
82
83 mysql> desc Course;
84 +-----+-----+-----+-----+-----+-----+
85 | Field      | Type          | Null | Key | Default | Extra |
86 +-----+-----+-----+-----+-----+-----+
87 | course_id  | int           | NO   | PRI | NULL    |       |
88 | title      | varchar(100)  | YES  |     | NULL    |       |
89 | dept_no    | int           | YES  |     | NULL    |       |
90 | credits    | varchar(20)   | YES  |     | NULL    |       |
91 +-----+-----+-----+-----+-----+-----+
92 4 rows in set (0.00 sec)
93
94 mysql> create table Teaches(teacher_id int,course_id int,semester int,year
95 varchar(30),foreign key(teacher_id) references Instructor(ins_id),foreign
96 key(course_id) references Course(course_id));
97 Query OK, 0 rows affected (0.05 sec)
98
99 mysql> desc Teaches;
100 +-----+-----+-----+-----+-----+-----+
101 | Field      | Type          | Null | Key | Default | Extra |
102 +-----+-----+-----+-----+-----+-----+
103 | teacher_id | int           | YES  | MUL | NULL    |       |
104 | course_id  | int           | YES  | MUL | NULL    |       |
105 | semester   | int           | YES  |     | NULL    |       |
106 | year       | varchar(30)   | YES  |     | NULL    |       |
107 +-----+-----+-----+-----+-----+-----+
108 4 rows in set (0.00 sec)
109
110 mysql> show tables;
111 +-----+
112 | Tables_in_university |
113 +-----+
114 | course                |
115 | department            |
116 | instructor            |
117 | teaches               |
118 +-----+
119 4 rows in set (0.00 sec)

```

# 1.Add Primary Key into Department Table.

```

119 mysql> alter table Department add Primary Key(dept_no);
120 Query OK, 0 rows affected (0.04 sec)
121 Records: 0 Duplicates: 0 Warnings: 0
122
123 mysql> desc Department;
124 +-----+-----+-----+-----+-----+-----+
125 | Field      | Type          | Null | Key | Default | Extra |
126 +-----+-----+-----+-----+-----+-----+
127 | dept_no    | int           | NO   | PRI | NULL    |       |
128 | dept_name  | varchar(80)   | YES  | UNI | NULL    |       |
129 | building_name | varchar(30) | YES  |     | NULL    |       |
130 +-----+-----+-----+-----+-----+-----+
131 3 rows in set (0.00 sec)

```

```

132
133 2.Add Foreign Key into Instructor table.
134
135 mysql> alter table Instructor add foreign key(dept_no) references
    Department(dept_no);
136 Query OK, 0 rows affected (0.06 sec)
137 Records: 0 Duplicates: 0 Warnings: 0
138

```

```

139 mysql> desc Instructor;
140 +-----+-----+-----+-----+-----+-----+
141 | Field      | Type          | Null | Key | Default | Extra |
142 +-----+-----+-----+-----+-----+-----+
143 | ins_id     | int           | NO   | PRI | NULL    |       |
144 | ins_name   | varchar(80)   | NO   |     | NULL    |       |
145 | dept_no    | int           | YES  | MUL | NULL    |       |
146 | salary     | int           | YES  |     | NULL    |       |
147 | mob_no     | int           | YES  |     | NULL    |       |
148 +-----+-----+-----+-----+-----+-----+
149 5 rows in set (0.00 sec)
150

```

```

151 3.Modify the Department table by adding column Budget.
152

```

```

153 mysql> alter table Department add column Budget int;
154 Query OK, 0 rows affected (0.03 sec)
155 Records: 0 Duplicates: 0 Warnings: 0
156

```

```

157 mysql> desc Department;
158 +-----+-----+-----+-----+-----+-----+
159 | Field          | Type          | Null | Key | Default | Extra |
160 +-----+-----+-----+-----+-----+-----+
161 | dept_no        | int           | NO   | PRI | NULL    |       |
162 | dept_name      | varchar(80)   | YES  | UNI | NULL    |       |
163 | building_name  | varchar(30)   | YES  |     | NULL    |       |
164 | Budget         | int           | YES  |     | NULL    |       |
165 +-----+-----+-----+-----+-----+-----+
166 4 rows in set (0.00 sec)
167

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168 4.Create a UNIQUE INDEX on mobile number of Instructor table.
169

```

```

170 mysql> create index index_mob on Instructor(mob_no);
171 Query OK, 0 rows affected (0.02 sec)
172 Records: 0 Duplicates: 0 Warnings: 0
173

```

```

174 mysql> show indexes from Instructor;
175

```

```

176 +-----+-----+-----+-----+-----+-----+-----+
    | Table      | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Index_comment |
    |-----|-----|-----|-----|-----|-----|-----|
    | instructor | 0          | PRIMARY | 1            | ins_id      | A         |               |
    | 0          | NULL      | NULL    |             |             |           |               |
    | YES        | NULL      |         |             |             |           |               |
179 | instructor | 1          | dept_no  | 1            | dept_no     | A         |               |
    | 0          | NULL      | NULL    | YES         | BTREE       |           |               |
    | YES        | NULL      |         |             |             |           |               |
182 | instructor | 1          | index_mob | 1            | mob_no      | A         |               |
    | 0          | NULL      | NULL    | YES         | BTREE       |           |               |
    | YES        | NULL      |         |             |             |           |               |
184 +-----+-----+-----+-----+-----+-----+-----+
185 3 rows in set (0.02 sec)

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249

```
mysql> desc Instructor;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ins_id     | int           | NO   | PRI | NULL    |       |
| ins_name   | varchar(80)   | NO   |     | NULL    |       |
| dept_no    | int           | YES  | MUL | NULL    |       |
| salary     | int           | YES  |     | NULL    |       |
| mob_no     | int           | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

5.Create a VIEW of Instructor Relation except the salary field.

mysql> create view Teacher_view as select ins_id,ins_name,dept_no,mob_no from
Instructor;
Query OK, 0 rows affected (0.01 sec)

mysql> desc Teacher_view;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ins_id     | int           | NO   |     | NULL    |       |
| ins_name   | varchar(80)   | NO   |     | NULL    |       |
| dept_no    | int           | YES  |     | NULL    |       |
| mob_no     | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> show tables;
+-----+
| Tables_in_university |
+-----+
| course                |
| department             |
| instructor             |
| teacher_view          |
| teaches                |
+-----+
5 rows in set (0.00 sec)

6.Insert record into Instructor table using newly created view name.

mysql> insert into Department
values (1,'COMP','Old',10000), (2,'IT','Old',20000), (3,'ENTC','New',30000), (4,'MECH','O
ld',40000);
Query OK, 4 rows affected (0.01 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select *from Department;
+-----+-----+-----+-----+
| dept_no | dept_name | building_name | Budget |
+-----+-----+-----+-----+
| 1       | COMP      | Old           | 10000  |
| 2       | IT        | Old           | 20000  |
| 3       | ENTC      | New           | 30000  |
| 4       | MECH      | Old           | 40000  |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> insert into Teacher_view values (1,'Prof M.S.Agrawal',1,1234567890), (2,'Prof
G.D.Jadhav',2,543216789), (3,'Prof V.A.Gadekar',3,0987654321), (4,'Prof
R.R.Bathe',4,678905432);
Query OK, 4 rows affected (0.03 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select *from Instructor;
+-----+-----+-----+-----+-----+-----+
|
```

```

250 | ins_id | ins_name          | dept_no | salary | mob_no |
251 +-----+-----+-----+-----+-----+
252 |      1 | Prof M.S.Agrawal |      1 |  NULL | 1234567890 |
253 |      2 | Prof G.D.Jadhav  |      2 |  NULL | 543216789 |
254 |      3 | Prof V.A.Gadekar |      3 |  NULL | 987654321 |
255 |      4 | Prof R.R.Bathe   |      4 |  NULL | 678905432 |
256 +-----+-----+-----+-----+
257 4 rows in set (0.00 sec)

```

```

259 mysql> select *from Teacher_view;
260 +-----+-----+-----+-----+
261 | ins_id | ins_name          | dept_no | mob_no |
262 +-----+-----+-----+-----+
263 |      1 | Prof M.S.Agrawal |      1 | 1234567890 |
264 |      2 | Prof G.D.Jadhav  |      2 | 543216789 |
265 |      3 | Prof V.A.Gadekar |      3 | 987654321 |
266 |      4 | Prof R.R.Bathe   |      4 | 678905432 |
267 +-----+-----+-----+-----+
268 4 rows in set (0.00 sec)

```

7.Update the department number of a particular instructor using update view.

```

272 mysql> update Teacher_view set dept_no=1 where ins_id=2;
273 Query OK, 1 row affected (0.01 sec)
274 Rows matched: 1  Changed: 1  Warnings: 0

```

```

276 mysql> select *from Instructor;
277 +-----+-----+-----+-----+
278 | ins_id | ins_name          | dept_no | salary | mob_no |
279 +-----+-----+-----+-----+
280 |      1 | Prof M.S.Agrawal |      1 |  NULL | 1234567890 |
281 |      2 | Prof G.D.Jadhav  |      1 |  NULL | 543216789 |
282 |      3 | Prof V.A.Gadekar |      3 |  NULL | 987654321 |
283 |      4 | Prof R.R.Bathe   |      4 |  NULL | 678905432 |
284 +-----+-----+-----+-----+
285 4 rows in set (0.00 sec)

```

```

287 mysql> select *from Teacher_view;
288 +-----+-----+-----+-----+
289 | ins_id | ins_name          | dept_no | mob_no |
290 +-----+-----+-----+-----+
291 |      1 | Prof M.S.Agrawal |      1 | 1234567890 |
292 |      2 | Prof G.D.Jadhav  |      1 | 543216789 |
293 |      3 | Prof V.A.Gadekar |      3 | 987654321 |
294 |      4 | Prof R.R.Bathe   |      4 | 678905432 |
295 +-----+-----+-----+-----+
296 4 rows in set (0.00 sec)

```

8.Delete record of particular instructor from Instructor table using newly created view name.

```

300 mysql> delete from Teacher_view where ins_id=3;
301 Query OK, 1 row affected (0.00 sec)

```

```

303 mysql> select *from Instructor;
304 +-----+-----+-----+-----+
305 | ins_id | ins_name          | dept_no | salary | mob_no |
306 +-----+-----+-----+-----+
307 |      1 | Prof M.S.Agrawal |      1 |  NULL | 1234567890 |
308 |      2 | Prof G.D.Jadhav  |      1 |  NULL | 543216789 |
309 |      4 | Prof R.R.Bathe   |      4 |  NULL | 678905432 |
310 +-----+-----+-----+-----+
311 3 rows in set (0.00 sec)

```

```

313 mysql> select *from Teacher_view;
314 +-----+-----+-----+-----+
315 | ins_id | ins_name          | dept_no | mob_no |
316 +-----+-----+-----+-----+
317 |      1 | Prof M.S.Agrawal |      1 | 1234567890 |

```

```

318 |      2 | Prof G.D.Jadhav |      1 | 543216789 |
319 |      4 | Prof R.R.Bathe  |      4 | 678905432 |
320 +-----+-----+-----+-----+
321 3 rows in set (0.00 sec)
322

```

9.Delete the last VIEW.

```

325 mysql> drop view Teacher_view;
326 Query OK, 0 rows affected (0.01 sec)
327

```

```

328 mysql> show tables;
329 +-----+
330 | Tables_in_university |
331 +-----+
332 | course                |
333 | department            |
334 | instructor            |
335 | teaches               |
336 +-----+
337 4 rows in set (0.00 sec)
338

```

10.Remove the Budget from Department table.

```

341 mysql> alter table Department drop column Budget;
342 Query OK, 0 rows affected (0.02 sec)
343 Records: 0  Duplicates: 0  Warnings: 0
344

```

```

345 mysql> desc Department;
346 +-----+-----+-----+-----+-----+-----+
347 | Field          | Type          | Null | Key | Default | Extra |
348 +-----+-----+-----+-----+-----+-----+
349 | dept_no        | int           | NO   | PRI | NULL    |      |
350 | dept_name      | varchar(80)   | YES  | UNI | NULL    |      |
351 | building_name  | varchar(30)   | YES  |     | NULL    |      |
352 +-----+-----+-----+-----+-----+-----+
353 3 rows in set (0.00 sec)
354

```

```

355 mysql> select *from Department;
356 +-----+-----+-----+
357 | dept_no | dept_name | building_name |
358 +-----+-----+-----+
359 |      1  | COMP     | Old           |
360 |      2  | IT       | Old           |
361 |      3  | ENTC     | New           |
362 |      4  | MECH     | Old           |
363 +-----+-----+-----+
364 4 rows in set (0.00 sec)
365

```

11.Increase size of title field of Course Relation.

```

368 mysql> alter table Course modify title varchar(150);
369 Query OK, 0 rows affected (0.02 sec)
370 Records: 0  Duplicates: 0  Warnings: 0
371

```

```

372 mysql> desc Course ;
373 +-----+-----+-----+-----+-----+-----+
374 | Field          | Type          | Null | Key | Default | Extra |
375 +-----+-----+-----+-----+-----+-----+
376 | course_id      | int           | NO   | PRI | NULL    |      |
377 | title          | varchar(150)  | YES  |     | NULL    |      |
378 | dept_no        | int           | YES  |     | NULL    |      |
379 | credits        | varchar(20)   | YES  |     | NULL    |      |
380 +-----+-----+-----+-----+-----+-----+
381 4 rows in set (0.00 sec)
382

```

12.Delete the INDEX from Instructor table.

```

385 mysql> alter table Instructor drop index index_mob;
386 Query OK, 0 rows affected (0.03 sec)

```

387 Records: 0 Duplicates: 0 Warnings: 0

388

389 mysql> desc Instructor;

Field	Type	Null	Key	Default	Extra
ins_id	int	NO	PRI	NULL	
ins_name	varchar(80)	NO		NULL	
dept_no	int	YES	MUL	NULL	
salary	int	YES		NULL	
mob_no	int	YES		NULL	

398 5 rows in set (0.00 sec)

399 mysql> show indexes from Instructor;

400

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
instructor	0	PRIMARY	1	ins_id	A	0			NULL	BTREE			YES	NULL
instructor	1		1	dept_no	A	0			NULL	BTREE			YES	NULL

407

408

2 rows in set (0.01 sec)

410

411 13.Rename the Course table to another table name.

412

413 mysql> alter table Course RENAME Program;

414 Query OK, 0 rows affected (0.02 sec)

415

416 mysql> show tables;

Tables_in_university
department
instructor
program
teaches

424 4 rows in set (0.00 sec)

426

427 mysql> desc Program;

Field	Type	Null	Key	Default	Extra
course_id	int	NO	PRI	NULL	
title	varchar(150)	YES		NULL	
dept_no	int	YES		NULL	
credits	varchar(20)	YES		NULL	

436 4 rows in set (0.00 sec)

437

438 14.Create a VIEW by showing a instructor name and title of the course they teaches.

439

440 mysql> insert into Program values(1,'DBMSL',1,'A');

441 Query OK, 1 row affected (0.01 sec)

442

```

443 mysql> insert into Teaches values (1,1,1,'TE');
444 Query OK, 1 row affected (0.00 sec)
445
446 mysql> select *from Program;
447 +-----+-----+-----+-----+
448 | course_id | title | dept_no | credits |
449 +-----+-----+-----+-----+
450 |          1 | DBMSL |          1 | A        |
451 +-----+-----+-----+-----+
452 1 row in set (0.00 sec)
453
454 mysql> select *from Instructor;
455 +-----+-----+-----+-----+-----+
456 | ins_id | ins_name          | dept_no | salary | mob_no      |
457 +-----+-----+-----+-----+-----+
458 |      1 | Prof M.S.Agrawal |          1 | NULL   | 1234567890 |
459 |      2 | Prof G.D.Jadhav  |          1 | NULL   | 543216789  |
460 |      4 | Prof R.R.Bathe   |          4 | NULL   | 678905432  |
461 +-----+-----+-----+-----+-----+
462 3 rows in set (0.00 sec)
463
464 mysql> select *from Teaches;
465 +-----+-----+-----+-----+
466 | teacher_id | course_id | semester | year |
467 +-----+-----+-----+-----+
468 |           1 |           1 |           5 | TE   |
469 +-----+-----+-----+-----+
470 1 row in set (0.00 sec)
471
472 mysql> create view Teaches_view as select ins_name,title from
Instructor,Program,Teaches where Teaches.teacher_id=Instructor.ins_id and
Teaches.course_id=Program.course_id;
473 Query OK, 0 rows affected (0.01 sec)
474
475 mysql> show tables;
476 +-----+
477 | Tables_in_university |
478 +-----+
479 | department            |
480 | instructor            |
481 | program               |
482 | teaches               |
483 | teaches_view          |
484 +-----+
485 5 rows in set (0.01 sec)
486
487 mysql> desc Teaches_view;
488 +-----+-----+-----+-----+-----+-----+
489 | Field      | Type          | Null | Key | Default | Extra |
490 +-----+-----+-----+-----+-----+-----+
491 | ins_name   | varchar(80)   | NO   |     | NULL    |       |
492 | title      | varchar(150)  | YES  |     | NULL    |       |
493 +-----+-----+-----+-----+-----+-----+
494 2 rows in set (0.01 sec)
495
496 mysql> select *from Teaches_view;
497 +-----+-----+
498 | ins_name          | title |
499 +-----+-----+
500 | Prof M.S.Agrawal | DBMSL |
501 +-----+-----+
502 1 row in set (0.00 sec)
503
504 15.Delete the primary key from the Department table.
505
506 mysql> show create table Instructor;
507
+-----+
+-----+

```



```

-----+
508 | Table      | Create Table
509
510
511 |
512
+-----+-----+
-----+
513 | Instructor | CREATE TABLE `instructor` (
514   `ins_id` int NOT NULL,
515   `ins_name` varchar(80) NOT NULL,
516   `dept_no` int DEFAULT NULL,
517   `salary` int DEFAULT NULL,
518   `mob_no` int DEFAULT NULL,
519   PRIMARY KEY (`ins_id`),
520   KEY `dept_no` (`dept_no`),
521   CONSTRAINT `instructor_ibfk_1` FOREIGN KEY (`dept_no`) REFERENCES `department`
   (`dept_no`)
522 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci |
523
+-----+-----+
-----+
524 1 row in set (0.00 sec)
525
526 mysql> alter table Instructor drop foreign key `instructor_ibfk_1`;
527 Query OK, 0 rows affected (0.06 sec)
528 Records: 0  Duplicates: 0  Warnings: 0
529
530 mysql> alter table Department drop primary key;
531 Query OK, 4 rows affected (0.06 sec)
532 Records: 4  Duplicates: 0  Warnings: 0
533
534 mysql> desc Department;
535 +-----+-----+-----+-----+-----+-----+
536 | Field      | Type      | Null | Key | Default | Extra |
537 +-----+-----+-----+-----+-----+-----+
538 | dept_no    | int       | NO   |     | NULL    |       |
539 | dept_name  | varchar(80) | YES  | UNI | NULL    |       |
540 | building_name | varchar(30) | YES  |     | NULL    |       |
541 +-----+-----+-----+-----+-----+-----+
542 3 rows in set (0.00 sec)
543
544 16.Create a Sequence on course id starting with 51
545
546 mysql> alter table Program modify course_id int AUTO_INCREMENT;
547 ERROR 1833 (HY000): Cannot change column 'course_id': used in a foreign key
   constraint 'teaches_ibfk_2' of table 'university.teaches'
548
549 mysql> alter table Teaches drop foreign key teaches_ibfk_2;
550 Query OK, 0 rows affected (0.02 sec)
551 Records: 0  Duplicates: 0  Warnings: 0
552
553 mysql> alter table Program modify course_id int AUTO_INCREMENT;
554 Query OK, 1 row affected (0.05 sec)
555 Records: 1  Duplicates: 0  Warnings: 0
556
557 mysql> alter table Program AUTO_INCREMENT=51;
558 Query OK, 0 rows affected (0.02 sec)
559 Records: 0  Duplicates: 0  Warnings: 0
560
561 mysql> desc Program;

```

```

562 +-----+-----+-----+-----+-----+-----+
563 | Field      | Type          | Null | Key | Default | Extra          |
564 +-----+-----+-----+-----+-----+-----+
565 | course_id | int           | NO   | PRI | NULL    | auto_increment |
566 | title     | varchar(150)  | YES  |     | NULL    |                |
567 | dept_no   | int           | YES  |     | NULL    |                |
568 | credits   | varchar(20)   | YES  |     | NULL    |                |
569 +-----+-----+-----+-----+-----+-----+
570 4 rows in set (0.00 sec)
571
572 mysql> insert into Program (title,dept_no,credits) values('TOC',1,'0');
573 Query OK, 1 row affected (0.01 sec)
574 mysql> insert into Program (title,dept_no,credits) values('SPOS',2,'0');
575 Query OK, 1 row affected (0.00 sec)mysql> select * from Program;
576 +-----+-----+-----+-----+
577 | course_id | title | dept_no | credits |
578 +-----+-----+-----+-----+
579 |          1 | DBMSL |          1 | A       |
580 |          51 | TOC   |          1 | O       |
581 |          52 | SPOS  |          2 | O       |
582 +-----+-----+-----+-----+
583 3 rows in set (0.00 sec)

```

#### 19.Delete all the records with truncate command

```

586
587 mysql> truncate table Department;
588 Query OK, 0 rows affected (0.04 sec)
589
590 mysql> select *from Department;
591 Empty set (0.00 sec)
592
593 mysql> truncate table Instructor;
594 ERROR 1701 (42000): Cannot truncate a table referenced in a foreign key constraint
595 (`university`.`teaches`, CONSTRAINT `teaches_ibfk_1`)
596 mysql> alter table Teaches drop foreign key teaches_ibfk_1;
597 Query OK, 0 rows affected (0.02 sec)
598 Records: 0 Duplicates: 0 Warnings: 0
599
600 mysql> truncate table Instructor;
601 Query OK, 0 rows affected (0.04 sec)
602
603 mysql> select *from Instructor;
604 Empty set (0.00 sec)
605
606 mysql> truncate table Program;
607 ERROR 1701 (42000): Cannot truncate a table referenced in a foreign key constraint
608 (`university`.`teaches`, CONSTRAINT `teaches_ibfk_2`)
609 mysql> alter table Teaches drop foreign key teaches_ibfk_2;
610 Query OK, 0 rows affected (0.02 sec)
611 Records: 0 Duplicates: 0 Warnings: 0
612
613 mysql> truncate table Program;
614 Query OK, 0 rows affected (0.03 sec)
615
616 mysql> select *from Program;
617 Empty set (0.00 sec)
618
619 mysql> truncate table Teaches;
620 Query OK, 0 rows affected (0.04 sec)
621
622 mysql> select * from Teaches;
623 Empty set (0.00 sec)

```

#### 20.Delete Teaches Table.

```

624
625 mysql> drop table Teaches;
626 Query OK, 0 rows affected (0.01 sec)
627
628 mysql> show tables;

```

```
629      +-----+
630      | Tables_in_university |
631      +-----+
632      | department           |
633      | instructor           |
634      | program              |
635      | teaches_view         |
636      +-----+
637      4 rows in set (0.00 sec)
638
```