

ASD LAB 3

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SS CSE

Roll no: 5

Questions - 1

- ① → ~~CREATE~~ DATABASE COLLEGE;
- ② → USE college;
→ SHOW TABLES;
- ③ → Create table student (sid int, Sname varchar(25),
sex char(1), dob date, dno int);
→ Create table Department (dno int, dname varchar(25));
→ Create table faculty (f-id int, fname varchar(25),
designation varchar(25), salary float, dno int);
→ Create table course (cid int, cname varchar(25),
credits int, dno int);
→ Create table Register (sid int, cid int, sem int);
→ Create table teaching (f-id int, cid int, sem int);
→ Create table Hostel (hid int, hname varchar(25),
seats int);

→ desc student;
→ desc department;
→ desc faculty;
→ desc course;
→ desc Teaching;
→ desc Register;

- alter table student add primary key (sid);
- alter Table department add primary key (dno);
- alter table faculty add primary key (f-id);
- alter table course add primary key (cid);
- alter table books add primary key (bid);
- alter table register add foreign key (sid) reference student (sid) on delete cascade add foreign key (cid) reference course (cid) on delete cascade;
- alter table ~~register~~ teaching add foreign key (f-id) reference faculty (f-id) on delete cascade. foreign key (cid) reference course (cid) on delete cascade;
- alter table faculty add foreign key (dno) reference department (dno) on delete cascade;
- alter table student add unique (dob);
- alter table faculty add unique (fname);
- alter table student modify sname varchar (20) not null;
- alter table department modify dname varchar (20) not null;

→ alter table faculty modify name varchar(30) not null;

→ alter table hostel modify name varchar(30) not null;

→ insert into student (sid, sname, sex, dob, dro) values

> (1, 'anant', 'f', 2000-12-01, 3);

> (5, 'Vishnu', 'm', 1999-04-05, 5);

> (4, 'deepika', 'f', 1998-09-13, 2);

> (3, 'ju', 'm', 1998-09-03, 1);

> (2, 'appu', 'm', 1999-07-07, 4);

→ insert into department (dro, dname) values

> (1, 'CSE');

> (2, 'EEE');

> (3, 'ECE');

> (4, 'ME');

> (5, 'CE');

→ insert into faculty (f-id, fname, designation, salary, dro) values

> (101, 'adhi', 'asst prof', 50000, 1);

> (102, 'ashu', 'asst prof', 50000, 2);

> (103, 'joh', 'asst prof', 5000, 4);

→ (104, 'ms', 'asst prof', 70000, 5),

→ (106, 'johny', 'asst prof', 80000, 3);

→ select * from student;

→ select * from department;

→ select * from faculty;

→ select * from course;

→ select * from hotel;

→ select * from register;

~~→ alter~~

→ alter table student add grade char(1);

→ delete from student where dno = (select dno
from department where dname = 'CS');

→ select * from student;

→ select * ~~from~~ ~~same~~ from student where
sex = 'm';

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 11

Server version: 8.0.20 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE college;
Query OK, 1 row affected (0.02 sec)

mysql> use college;

Database changed

mysql> show tables;

Empty set (0.01 sec)

mysql> create table student (sid int, sname varchar(25), sex char(1), dob date,dno int);
Query OK, 0 rows affected (0.05 sec)

mysql> create table Department (dno int, dname varchar(25));
Query OK, 0 rows affected (0.04 sec)

mysql> create table Faculty (F_id int, fname varchar(25), designation varchar(25), salary float,dno int);
Query OK, 0 rows affected (0.04 sec)

mysql> create table Course (cid int, cname varchar(25), credits int,dno int);
Query OK, 0 rows affected (0.06 sec)

mysql> create table Register (sid int ,cid int,sem int);
Query OK, 0 rows affected (0.05 sec)

mysql> create table Teaching (f_id int ,cid int,sem int);
Query OK, 0 rows affected (0.07 sec)

mysql> create table Hostel(hid int,hname varchar(25),seats int);
Query OK, 0 rows affected (0.05 sec)

mysql> ^C

mysql> desc student;

Field	Type	Null	Key	Default	Extra
sid	int	YES		NULL	
sname	varchar(25)	YES		NULL	
sex	char(1)	YES		NULL	



```
mysql> desc student;
```

Field	Type	Null	Key	Default	Extra
sid	int	YES		NULL	
sname	varchar(25)	YES		NULL	
sex	char(1)	YES		NULL	
dob	date	YES		NULL	
dno	int	YES		NULL	

```
5 rows in set (0.01 sec)
```

```
mysql> desc department;
```

Field	Type	Null	Key	Default	Extra
dno	int	YES		NULL	
dname	varchar(25)	YES		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> desc faculty;
```

Field	Type	Null	Key	Default	Extra
F_id	int	YES		NULL	
fname	varchar(25)	YES		NULL	
designation	varchar(25)	YES		NULL	
salary	float	YES		NULL	
dno	int	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
mysql> desc faculty;course;
```

Field	Type	Null	Key	Default	Extra
F_id	int	YES		NULL	
fname	varchar(25)	YES		NULL	
designation	varchar(25)	YES		NULL	
salary	float	YES		NULL	
dno	int	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'course' at line 1
```

```
mysql> desc course;
```

Field	Type	Null	Key	Default	Extra
-------	------	------	-----	---------	-------

Field	Type	Null	Key	Default	Extra
cid	int	YES		NULL	
cname	varchar(25)	YES		NULL	
credits	int	YES		NULL	
dno	int	YES		NULL	

4 rows in set (0.00 sec)

mysql> desc Teaching;

Field	Type	Null	Key	Default	Extra
f_id	int	YES		NULL	
cid	int	YES		NULL	
sem	int	YES		NULL	

3 rows in set (0.00 sec)

mysql> desc Register;

Field	Type	Null	Key	Default	Extra
sid	int	YES		NULL	
cid	int	YES		NULL	
sem	int	YES		NULL	

3 rows in set (0.00 sec)

mysql> alter table student add primary key(sid);

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table department add primary key(dno);

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table faculty add primary key(f_id);

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table course add primary key(cid);

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table hostel add primary key(hid);

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0




```
mysql> alter table hostel add primary key(hid);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table register add foreign key(sid) references student(sid)
-> on delete cascade,
-> add foreign key(cid) references course(cid)
-> on delete cascade;
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table teaching add foreign key(f_id) references faculty(f_id)
-> on delete cascade,
-> ^C
mysql> alter table teaching add foreign key(f_id) references faculty(f_id)
-> on delete cascade,
-> add foreign key(cid) references course(cid)
-> on delete cascade;
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table faculty add foreign key(dno) references department(dno)on delete cascade;
Query OK, 0 rows affected (0.12 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table student add unique(dob);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table faculty add unique(fname);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table student modify sname varchar(20) not null;
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table department modify dname varchar(30) not null;
Query OK, 0 rows affected (0.18 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table faculty modify fname varchar(30) not null;
Query OK, 0 rows affected (0.09 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table course modify cname varchar(30) not null;
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table hostel modify hname varchar(30) not null;
```



Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table hostel modify hname varchar(30) not null;
```

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> insert into student (sid, sname, sex, dob,dno) values(1,'aavani','f','24-09-2000',3);
```

ERROR 1292 (22007): Incorrect date value: '24-09-2000' for column 'dob' at row 1

```
mysql> insert into student(sid, sname, sex, dob,dno) values(1,'aavani','f','2000-12-01',3),(5,'vishnu','m','1999-04-05',5),
```

```
-> (4,'depika','f','1998-09-03',1),
```

```
-> (3,'jis','m','1998-04-13',2),
```

```
-> (2,'appu','m','1999-07-07',4);
```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> insert into Department (dno, dname) values
```

```
-> (1,'CSE'),
```

```
-> (2,'EEE'),
```

```
-> (3,'ECE'),
```

```
-> (4,'ME'),
```

```
-> (5,'CE');
```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> insert into Faculty (F_id, fname, designation, salary,dno) values
```

```
-> (101,'abhi','asst prof',50000,1),
```

```
-> (101,'ashi','asst prof',50000,2),
```

```
-> ^C
```

```
mysql> insert into Faculty (F_id, fname, designation, salary,dno) values
```

```
-> (101,'abhi','asst prof',50000,1),
```

```
-> (102,'ashi','asst prof',50000,2),
```

```
-> (103,'joh','asst prof',50000,4),
```

```
-> (104,'ras','asst prof',70000,5),
```

```
-> (106,'johnny','asst prof',80000,3);
```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> insert into Course (cid, cname, credits,dno) values
```

```
-> (1001,'ambika',9,1),
```

```
-> (1002,'ika',9,2);
```

Query OK, 2 rows affected (0.01 sec)

Records: 2 Duplicates: 0 Warnings: 0

```
mysql> select student;
```

ERROR 1054 (42S22): Unknown column 'student' in 'field list'

```
mysql> select from student;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'from student' at line 1

```
mysql> select *from student;
```

+-----+-----+-----+-----+-----+-----+



Type here to search



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04-Oct-20



sid	sname	sex	dob	dno
1	aavani	f	2000-12-01	3
2	appu	m	1999-07-07	4
3	jis	m	1998-04-13	2
4	depika	f	1998-09-03	1
5	vishnu	m	1999-04-05	5

5 rows in set (0.00 sec)

mysql> select *from Department;

dno	dname
1	CSE
2	EEE
3	ECE
4	ME
5	CE

5 rows in set (0.00 sec)

mysql> select *from Faculty;

F_id	fname	designation	salary	dno
101	abhi	asst prof	50000	1
102	ashi	asst prof	50000	2
103	joh	asst prof	50000	4
104	ras	asst prof	70000	5
106	johnny	asst prof	80000	3

5 rows in set (0.00 sec)

mysql> insert into Course (cid, cname, credits,dno) values

-> (1003,'rajana'3),

-> (1004,'toc'5)'

'> ^C

mysql> insert into Course (cid, cname, credits,dno) values

-> (1003,'toc'3),

-> (1004,'tc'5),

-> (1005,'dc'4);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '3),

(1004,'tc'5),

(1005,'dc'4)' at line 2

mysql> insert into Course (cid, cname, credits,dno) values

-> (1005,'dc',4),

-> (1004,'tc',5),

(1005,'dc'4)' at line 2

mysql> insert into Course (cid, cname, credits,dno) values

-> (1005,'dc',4),

-> (1004,'tc',5),

-> (1003,'toc',3);

ERROR 1136 (21S01): Column count doesn't match value count at row 1

mysql> alter table student add grade char(1);

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> delete from student where dno=(select dno from department where dname='cse');

Query OK, 1 row affected (0.02 sec)

mysql> select *from student;

sid	sname	sex	dob	dno	grade
1	aavani	f	2000-12-01	3	NULL
2	appu	m	1999-07-07	4	NULL
3	jis	m	1998-04-13	2	NULL
5	vishnu	m	1999-04-05	5	NULL

4 rows in set (0.00 sec)

mysql> select * record;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'record' at line 1

mysql> select * from register;

Empty set (0.00 sec)

mysql> select *from student(sname) where student(sex)=m;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '(sname) where student(sex)=m' at line 1

mysql> select *from student(sname) where sex=m;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '(sname) where sex=m' at line 1

mysql> select sname from student where sex='m';

sname
appu
jis
vishnu

3 rows in set (0.00 sec)

mysql> drop database college;

Query OK, 7 rows affected (0.28 sec)

mysql>



Type here to search



ENG

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04-Oct-20