G5-Yograj Gadekar (Library DB)

```
mysql> create database library;
Query OK, 1 row affected (0.19 sec)
```

mysql> use library; Database changed

mysql> show tables; Empty set (0.07 sec)

mysql> create table admin(

- -> id int(2),
- -> username varchar(20),
- -> password varchar(20),
- -> firstname varchar(20),
- -> lastname varchar(20),
- -> mobile varchar(10),
- -> email_id varchar(50));

Query OK, 0 rows affected, 1 warning (0.96 sec)

mysql> insert into admin(id, username, password, firstname, lastname, mobile, email_id) values

- -> (1, 'yograj123', 'sai123', 'yograj', 'gadekar', '7083601202', 'yograjgadekar122@gmail.com'),
- -> (2, 'swapnil123', 'kanade123', 'Swapnil', 'Kanade', '7584856222', 'swapnilkanade22@gmail.com'),
- -> (3, 'mayuri123', 'gaikwad123', 'Mayuri', 'Gaikwad', '9758825657', 'mayurigaikwad42@gmail.com'),
- -> (4, 'nikhil123', 'rajgude123', 'Nikhil', 'Rajgude', '7785896145', 'nikhilrajgude88@gmail.com');

Query OK, 4 rows affected (0.12 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> desc admin;
 Field
              Type
                             Null
                                    Key
                                           Default
                                                     Extra
 id
                                     PRI
                                           NULL
              int
                             NO
                             YES
                                           NULL
 username
              varchar(20)
 password
              varchar(20)
                             YES
                                           NULL
 firstname
              varchar(20)
                             YES
                                           NULL
 lastname
              varchar(20)
                             YES
                                           NULL
 mobile
                             YES
                                           NULL
              varchar(10)
 email_id
              varchar(50)
                             YES
                                           NULL
 rows in set (0.01 sec)
mysql> select *
                from admin;
                                                                         email id
       username
                     password
                                  firstname
                                               lastname
                                                           mobile
                     sai123
                                                           7083601202
                                                                         yograjgadekar122@gmail.com
  1
       yograj123
                                  yograj
                                               gadekar
                                                           7584856222
                                                                         swapnilkanade22@gmail.com
                                               Kanade
  2
       swapnil123
                    kanade123
                                  Swapnil
                     gaikwad123
                                                           9758825657
                                                                         mayurigaikwad42@gmail.com
       mayuri123
                                  Mayuri
                                               Gaikwad
       nikhil123
                     rajgude123
                                  Nikhil
                                                           7785896145
                                                                         nikhilrajgude88@gmail.com
                                               Rajgude
 rows in set (0.03 sec)
```

mysql> create table books(

- -> book_id int(4),
- -> title varchar(20),
- -> author varchar(20),
- -> price varchar(10),
- -> publisher varchar(50),
- -> publish_date date);

Query OK, 0 rows affected, 1 warning (1.04 sec)

mysql> insert into books(book_id, title, author, price, publisher, publish_date) values

- -> (01, 'C_programming', 'yashwant_kanetkar', '260', 'TexMax', '2010-08-10');
- -> (02, 'C++_programming', 'yashwant_kanetkar', '360', 'TechMax', '2011-10-12'),
- -> (03, 'MySQL_Database', 'Amit_sharma', '400', 'Techknowledge', '2011-08-11');
- -> (04, 'Python', 'Amit_Shukla', '450', 'Techknowledge', '2007-05-10'),
- -> (05, 'RDBMS', 'Rupali_Shelake', '205', 'ICEBreakers', '2011-11-15'),
- -> (06, 'Software_Development', 'Vijay_Chaudhari', '310', 'TechGuru', '2011-12-18'),
- -> (07, 'Physics', 'Arvind_Ganvir', '150', 'Navneet', '2008-02-25');

Query OK, 7 rows affected (0.10 sec)

Records: 7 Duplicates: 0 Warnings: 0

ield	Туре	Null	Key	Default	Extra		
ook_id	int	NO	PRI	NULL	· · · · · · · · · · · · · · · · · · ·		
itle	varchar(20)	YES	!!	NULL	. !		
uthor	varchar(20)	YES	!!	NULL	. !		
rice	varchar(10)	YES		NULL	ļ		
oublisher	varchar(50)	YES		NULL	ļ		
publish_date	date	YES		NULL	I		
sql> select *	0.00 sec) from books;						
sql> select * 	from books;	+ a	uthor		+ price	publisher	+ publish_date
sql> select * book_id tit 	from books; le	+		 kanetkar	+ price +	publisher TexMax	+
sql> select * book_id tit 1 C_p	from books;	;	ashwant	 kanetkar kanetkar	+		+
sql> select * book_id tit 1 C_p 2 C++	from books; 	y y y	ashwant ashwant mit_sha	_kanetkar arma	 260	TexMax	+
sql> select *+ book_id tit1 C_p 2 C++ 3 MyS 4 Pyt	from books; le rogramming programming QL_Database	y y y A	/ashwant /ashwant /mit_sha /mit_Sh	_kanetkar arma ukla	+ 260 360 400 450	TexMax TechMax Techknowledge Techknowledge	2010-08-10 2011-10-12 2011-08-11 2007-05-10
sql> select *	from books; le rogramming programming QL_Database hon	y y A A	rashwant rashwant mit_sha mit_Shu	t_kanetkar arma ukla Shelake	260 360 360 400 450 205	TexMax TechMax Techknowledge Techknowledge ICEBreakers	2010-08-10 2011-10-12 2011-08-11 2007-05-10 2011-11-15
sql> select * book_id tit 1 C_p 2 C++ 3 MyS 4 Pyt 5 RDB 6 Sof	from books; le rogramming programming QL_Database	y y A A R	rashwant rashwant mit_sha mit_Shu	_kanetkar arma ukla Shelake naudhari	+ 260 360 400 450	TexMax TechMax Techknowledge Techknowledge	2010-08-10 2011-10-12 2011-08-11 2007-05-10

\

mysql> create table borrow(

- -> book_id int(4),
- -> issue_id int(4),
- -> student_id varchar(20),
- -> issuedate date,
- -> returndate date,
- -> fine int(10));

Query OK, 0 rows affected, 2 warnings (1.80 sec)

mysql> insert into issued_book values

- -> (01,03,'STD001','2018-08-22','2018-09-22','150'),
- -> (02,04,'STD005','2017-04-11','2017-04-17','050'),
- -> (03,02,'STD002','2019-07-14','2019-07-17','000'),
- -> (04,02,'STD003','2019-04-14','2019-04-17','050'),
- -> (05,01,'STD004','2018-08-25','2019-07-29','300');

Query OK, 5 rows affected (0.21 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> desc is	ssued_boo	k;	+	·	·	+	-+		
Field	Type		Null	Key	Defaul	t Extra	1		
issue_id book_id student_id issuedate returndate fine	int int varchar date date int	(20)	NO YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL		-+		
rows in set			_book;						
issue_id b	book_id	stude	ent_id	issue	edate	returnda	te	fine	
1 2 3 4 5	3 4 2 2 1	STD06 STD06 STD06 STD06 STD06	95 92 93	2017- 2019- 2019-	-08-22 -04-11 -07-14 -04-14 -08-25	2018-09- 2017-04- 2019-07- 2019-04- 2019-07-	17 17 17	150 50 0 50 50 300	
+ 5 rows in set	(0.01 se	ec)		+				+	

mysql> create table students(

- -> id int(4),
- -> student_id varchar(20),
- -> first_name varchar(20),
- -> last_name varchar(20),
- -> email_id varchar(50),
- -> mobile_no varchar(10),
- -> password varchar(50));

Query OK, 0 rows affected, 1 warning (1.21 sec)

mysql> insert into students values

- -> (01, 'STD001', 'Yograj', 'Gadekar', 'yograjgadekar122@gmail.com', '7083601202', 'sai123'),
- -> (02, 'STD002', 'Swapnil', 'Kanade', 'swapnilkanade22@gmail.com', '7584856222', 'swapnil123'),
- -> (03,'STD003','Mayuri','Gaikwad','mayurigaikwad42@gmail.com','9758825657','mayuri123'),
- -> (04, 'STD004', 'Nikhil', 'Rajgude', 'nikhilrajgude88@gmail.com', '7785896145', 'nikhil123'),
- -> (05, 'STD005', 'Amit', 'Patil', 'patilamit0786@gmail.com', '9637784561', 'amit123'),
- -> (06, 'STD006', 'Ajinath', 'Sawant', 'sawantajm@gmail.com', '9130404942', 'ajay123'),
- -> (07, 'STD007', 'Samadhan', 'Kadam', 'kadamsamadhan@gmail.com', '9172589645', 'sam123');

Query OK, 7 rows affected (0.23 sec)

Records: 7 Duplicates: 0 Warnings: 0

ield	Type	e	Null	Key	Default	Extra			
id	+ int	+	NO	++ PRI	NULL	++ 			
student		har(20)	YES	UNI	NULL				
first na		har(20)	YES	ONI	NULL				
last na		har(20)	YES	!!	NULL	!!			
_				!!		!!			
email_i		thar(50)	YES		NULL				
mobile_		har(10)	YES YES		NULL				
passwor	u į vard	har(50)	162	. I	NULL	!			
rows in	set (0.00	ec)							
	set (0.00 lect * fro		s; +					.+	+
ysql> se		om student	+	 ast_nam	+ ne email	id		-+	+ password +
ysql> se + id st	lect * fro	om student first_na	me 1	ast_nam adekar	+	-		+	+ password + sai123
ysql> se + id st + 1 STI	lect * fro udent_id	om student	me 1		yogra	- jgadekar12	 22@gmail.com 2@gmail.com	+	+
ysql> se id st + 1 STI 2 STI	lect * fro udent_id 	om student first_na Yograj	me 1 + G K	adekar	yogra yogra	jgadekar12 ilkanade22	2@gmail.com 2@gmail.com	7083601202	 sai123
ysql> se id st + 1 ST 2 ST 3 ST	lect * fro udent_id D001 D002	om student first_na Yograj Swapnil	me 1 + G K	 adekar anade	yogra yogra swapn: mayur:	jgadekar12 ilkanade22 igaikwad42	2@gmail.com	7083601202 7584856222	
ysql> sei id sti + 1 STI 2 STI 3 STI 4 STI	lect * fro udent_id D001 D002 D003	om student first_na Yograj Swapnil Mayuri	+ me 1 + G K G	 adekar anade aikwad	yogra swapn: mayur: nikhi	jgadekar12 ilkanade22 igaikwad42	2@gmail.com 2@gmail.com 3@gmail.com	7083601202 7584856222 9758825657	 sai123 swapnil123 mayuri123
ysql> sei id sto + 1 STO 2 STO 3 STO 4 STO 5 STO	lect * fro udent_id D001 D002 D003 D004	om student first_na Yograj Swapnil Mayuri Nikhil	me 1 + G K G R	adekar anade aikwad ajgude	yogra swapn: mayur: nikhi: patila	jgadekar12 ilkanade22 igaikwad42 lrajgude88	2@gmail.com 2@gmail.com B@gmail.com gmail.com	7083601202 7584856222 9758825657 7785896145	+

mysql> create table departments(

- -> dept_id int(10),
- -> dept_name varchar(50),
- -> dept_code varchar(20),
- -> dept_class_FE_SE_TE_BE varchar(34));

Query OK, 0 rows affected, 1 warning (2.25 sec)

mysql> insert into departments values

- -> (0011, 'IT', 'IT0011', 'BE'), (0011, 'IT', 'IT0012', 'TE'), (0011, 'IT', 'IT0013', 'SE'),
- -> (0021, 'Comp', 'Comp0021', 'BE'), (0021, 'Comp', 'Comp0022', 'TE'), (0021, 'Comp', 'Comp0023', 'SE'),
- -> (0031, 'Civil', 'Civil0031', 'BE'), (0031, 'Civil', 'Civil0032', 'TE'), (0031, 'Civil', 'Civil0033', 'SE'),
- -> (0041, 'E&TC', 'E&TC0041', 'BE'), (0041, 'E&TC', 'E&TC0042', 'TE'), (0041, 'E&TC', 'E&TC0043', 'SE'),
- -> (0051, 'Mech', 'Mech0051', 'BE'), (0051, 'Mech', 'Mech0052', 'TE'), (0051, 'Mech', 'Mech0053', 'SE'),
- -> (0061, 'Electrical', 'Ele0061', 'BE'), (0061, 'Electrical', 'Ele0062', 'TE'), (0061, 'Electrical', 'Ele0063', 'SE');

Query OK, 18 rows affected (0.31 sec)

Records: 18 Duplicates: 0 Warnings: 0

```
mysql> desc departments;
 Field
                            Type
                                           Null
                                                   Key
                                                          Default |
                                                                     Extra
 dept_id
                            int
                                            YES
                                                          NULL
                                            YES
 dept_name
                            varchar(50)
                                                          NULL
                            varchar(20)
 dept_code
                                            YES
                                                          NULL
                            varchar(34)
                                            YES
 dept_class_FE_SE_TE_BE
                                                          NULL
 rows in set (0.00 sec)
mysql> select * from departments;
            dept_name
 dept_id |
                          dept_code
                                       dept_class_FE_SE_TE_BE
       11
            ΙT
                          IT0011
                                       ΒE
       11
            ΙT
                          IT0012
                                       ΤE
       11
            ΙT
                          IT0013
                                       SE
                          Comp@021
                                       BE
       21
            Comp
            Comp
       21
                          Comp0022
                                       TE
       21
            Comp
                          Comp0023
                                       SE
                          Civil0031
       31
            Civil
                                       BE
       31
            Civil
                          Civil0032
                                       ΤE
                          Civil0033
       31
                                       SE
            Civil
       41
            E&TC
                          E&TC0041
                                       ΒE
       41
                          E&TC0042
                                       ΤE
            E&TC
       41
            E&TC
                          E&TC0043
                                       SE
       51
            Mech
                          Mech0051
                                       BE
       51
                          Mech0052
                                       TE
            Mech
       51
                                       SE
            Mech
                          Mech0053
       61
                                       BE
            Electrical
                          Ele0061
       61
            Electrical
                          Ele0062
                                       ΤE
                          Ele0063
            Electrical
                                       SE
       61
18 rows in set (0.00 sec)
```

mysql> alter table admin add primary key (id);

Query OK, 0 rows affected (2.60 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table books add primary key (book_id);

Query OK, 0 rows affected (1.87 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table issued_book add primary key (issue_id);

Query OK, 0 rows affected (2.22 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table students add primary key (id), add unique key student_id (student_id);

Query OK, 0 rows affected (2.89 sec) Records: 0 Duplicates: 0 Warnings: 0

mysql> desc students; Null | Key | Default | Extra Field Type id int NO PRI NULL student_id varchar(20) YES UNI NULL varchar(20) first_name YES NULL varchar(20) last_name YES NULL email_id varchar(50) YES NULL mobile_no varchar(10) YES NULL password varchar(50) YES NULL rows in set (0.00 sec) mysql> desc departments; Field Type | Null | Key | Default | Extra dept_id int YES NULL dept_name varchar(50) YES NULL varchar(20) dept_code YES NULL dept_class_FE_SE_TE_BE | varchar(34) YES NULL rows in set (0.00 sec)