

```
mysql> # Joshi,Kunal
mysql> # Due Date: September 22, 2019
mysql> # Database Homework
mysql> # Section ISTE230.01
mysql> # Professor Habermas - Office (GOL) 2443
mysql> # EMAIL kj4732@rit.edu
mysql> select 'ISTE-230-01', 'HW03' as "Joshi,Kunal Deepak",curdate() as
"Today's Date";
-----
select 'ISTE-230-01', 'HW03' as "Joshi,Kunal Deepak",curdate() as "Today's
Date"
-----
```

```
+-----+-----+-----+
| ISTE-230-01 | Joshi,Kunal Deepak | Today's Date |
+-----+-----+-----+
| ISTE-230-01 | HW03                | 2019-09-20   |
+-----+-----+-----+
1 row in set (0.01 sec)
```

```
mysql> USE conman;
Database changed
mysql> SHOW TABLES;
```

```
-----
SHOW TABLES
-----
```

```
+-----+
| Tables_in_conman |
+-----+
| contact_info      |
+-----+
1 row in set (0.01 sec)
```

```
mysql> SELECT * FROM contact_info\G
```

```
-----
SELECT * FROM contact_info
-----
```

```
***** 1. row *****
      firstName: Charlene
      middleInitial: NULL
      lastName: Reynolds
suffixDescription: NULL
titleDescription: Mrs.
      jobTitle: Assistant to Finance Director
      department: Finance
      email: creynolds@concor.com
      url: NULL
      IMAddress: charreynolds
      phoneNumber: 323-546-6834 ext.30
phoneDescription: work
      birthday: 1972-06-15
      notes: Very nice, but can make things difficult if you make
her angry
      companyName: Concor International Inc.
      addressLine1: 143 South Main Street
      addressLine2: NULL
      city: Los Angeles
state_province: CA
```

```

zip_postalcode: 90012-3712
country_region: USA
companyURL: www.concor.com
companyPhone: 323-546-6834
***** 2. row *****
    firstName: Rachel
    middleInitial: NULL
    lastName: Woods
suffixDescription: NULL
titleDescription: Miss.
    jobTitle: NULL
    department: NULL
        email: goof@go.com
        url: NULL
    IMAddress: Goofy12
    phoneNumber: 585-532-4332
phoneDescription: cell
    birthday: 1985-05-06
        notes: Favorite color is purple
    companyName: NULL
    addressLine1: NULL
    addressLine2: NULL
        city: NULL
    state_province: NULL
    zip_postalcode: NULL
    country_region: NULL
    companyURL: NULL
    companyPhone: NULL
***** 3. row *****
    firstName: Les
    middleInitial: M
    lastName: Nelson
suffixDescription: Ph.D.
titleDescription: Prof.
    jobTitle: Professor
    department: Business
        email: Imnbus@rit.edu
        url: NULL
    IMAddress: NULL
    phoneNumber: 585-475-0000
phoneDescription: work
    birthday: 1964-03-23
        notes: Hates when work is submitted late
    companyName: RIT
    addressLine1: Bldg.12
    addressLine2: 102 Lomb Memorial Drive
        city: Rochester
    state_province: NY
    zip_postalcode: 14623
    country_region: USA
    companyURL: www.rit.edu
    companyPhone: NULL
***** 4. row *****
    firstName: Karson
    middleInitial: B
    lastName: Campbell
suffixDescription: NULL
titleDescription: Dr.
    jobTitle: Chief Resident
    department: Pediatrics

```

```

        email: kbc232@mvch.org
        url: NULL
    IMAddress: NULL
    phoneNumber: 585-544-1212
phoneDescription: home
    birthday: 1955-01-05
        notes: Wife: Molly Kids: Cassidy, Justine, and Cory.
    companyName: Mountain View Hospital
    addressLine1: NULL
    addressLine2: NULL
        city: NULL
    state_province: NULL
    zip_postalcode: NULL
    country_region: NULL
    companyURL: NULL
    companyPhone: NULL
***** 5. row *****
    firstName: Kunal
    middleInitial: D
    lastName: Joshi
suffixDescription: MS
    titleDescription: Mr.
        jobTitle: NULL
    department: NULL
        email: kj4732@rit.edu
        url: NULL
    IMAddress: NULL
    phoneNumber: NULL
phoneDescription: NULL
    birthday: NULL
        notes: NULL
    companyName: NULL
    addressLine1: NULL
    addressLine2: NULL
        city: NULL
    state_province: NULL
    zip_postalcode: NULL
    country_region: NULL
    companyURL: NULL
    companyPhone: NULL
***** 6. row *****
    firstName: Jacob
    middleInitial: P
    lastName: Jacobson
suffixDescription: Jr.
    titleDescription: Mr.
        jobTitle: Director
    department: Finance
        email: rjameson@concor.com
        url: www.concor.com/~rjames
    IMAddress: jpjacobson
    phoneNumber: 323-546-6834 ext.29
phoneDescription: work
    birthday: 1969-07-13
        notes: All meetings must be scheduled through Charlene
Reynolds
    companyName: Concor International Inc.
    addressLine1: 143 South Main Street
    addressLine2: NULL
        city: Los Angeles

```

```
state_province: CA
zip_postalcode: 90012-3712
country_region: USA
companyURL: www.concor.com
companyPhone: 323-546-6834
6 rows in set (0.00 sec)
```

```
mysql> # Deleting self information from contact_info table
mysql> delete from contact_info where firstName like "Kunal";
-----
delete from contact_info where firstName like "Kunal"
-----
```

Query OK, 1 row affected (0.04 sec)

```
mysql> # Checking remaining records in contact_info table after deleting
self information record
mysql> SELECT * FROM contact_info\G
-----
SELECT * FROM contact_info
-----
```

\*\*\*\*\* 1. row \*\*\*\*\*

```
    firstName: Charlene
    middleInitial: NULL
    lastName: Reynolds
suffixDescription: NULL
titleDescription: Mrs.
    jobTitle: Assistant to Finance Director
    department: Finance
    email: creynolds@concor.com
    url: NULL
    IMAddress: charreynolds
    phoneNumber: 323-546-6834 ext.30
phoneDescription: work
    birthday: 1972-06-15
    notes: Very nice, but can make things difficult if you make
her angry
    companyName: Concor International Inc.
    addressLine1: 143 South Main Street
    addressLine2: NULL
    city: Los Angeles
state_province: CA
zip_postalcode: 90012-3712
country_region: USA
    companyURL: www.concor.com
    companyPhone: 323-546-6834
```

\*\*\*\*\* 2. row \*\*\*\*\*

```
    firstName: Rachel
    middleInitial: NULL
    lastName: Woods
suffixDescription: NULL
titleDescription: Miss.
    jobTitle: NULL
    department: NULL
    email: goof@go.com
    url: NULL
    IMAddress: Goofy12
    phoneNumber: 585-532-4332
phoneDescription: cell
```

```

        birthday: 1985-05-06
        notes: Favorite color is purple
        companyName: NULL
        addressLine1: NULL
        addressLine2: NULL
        city: NULL
        state_province: NULL
        zip_postalcode: NULL
        country_region: NULL
        companyURL: NULL
        companyPhone: NULL
***** 3. row *****
        firstName: Les
        middleInitial: M
        lastName: Nelson
        suffixDescription: Ph.D.
        titleDescription: Prof.
        jobTitle: Professor
        department: Business
        email: Imnbus@rit.edu
        url: NULL
        IMAddress: NULL
        phoneNumber: 585-475-0000
        phoneDescription: work
        birthday: 1964-03-23
        notes: Hates when work is submitted late
        companyName: RIT
        addressLine1: Bldg.12
        addressLine2: 102 Lomb Memorial Drive
        city: Rochester
        state_province: NY
        zip_postalcode: 14623
        country_region: USA
        companyURL: www.rit.edu
        companyPhone: NULL
***** 4. row *****
        firstName: Karson
        middleInitial: B
        lastName: Campbell
        suffixDescription: NULL
        titleDescription: Dr.
        jobTitle: Chief Resident
        department: Pediatrics
        email: kbc232@mvch.org
        url: NULL
        IMAddress: NULL
        phoneNumber: 585-544-1212
        phoneDescription: home
        birthday: 1955-01-05
        notes: Wife: Molly Kids: Cassidy, Justine, and Cory.
        companyName: Mountain View Hospital
        addressLine1: NULL
        addressLine2: NULL
        city: NULL
        state_province: NULL
        zip_postalcode: NULL
        country_region: NULL
        companyURL: NULL
        companyPhone: NULL
***** 5. row *****

```

```
        firstName: Jacob
    middleInitial: P
        lastName: Jacobson
suffixDescription: Jr.
    titleDescription: Mr.
        jobTitle: Director
    department: Finance
        email: rjameson@concor.com
        url: www.concor.com/~rjames
    IMAddress: jpjacobson
    phoneNumber: 323-546-6834 ext.29
phoneDescription: work
    birthday: 1969-07-13
        notes: All meetings must be scheduled through Charlene
```

Reynolds

```
    companyName: Concor International Inc.
    addressLine1: 143 South Main Street
    addressLine2: NULL
        city: Los Angeles
    state_province: CA
    zip_postalcode: 90012-3712
    country_region: USA
        companyURL: www.concor.com
    companyPhone: 323-546-6834
```

5 rows in set (0.00 sec)

mysql> # Add attributes to the table

mysql> SOURCE D:\DATABASE\HW\HW03\Joshi\_attributes.sql

```
-----
alter table contact_info add column contactID varchar(9)
-----
```

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
-----
alter table contact_info add column suffixID varchar(9)
-----
```

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
-----
alter table contact_info add column titleID varchar(9)
-----
```

Query OK, 0 rows affected (0.12 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
-----
alter table contact_info add column companyID varchar(9)
-----
```

Query OK, 0 rows affected (0.10 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
-----
alter table contact_info add column phonetypeID varchar(9)
-----
```

Query OK, 0 rows affected (0.11 sec)  
Records: 0 Duplicates: 0 Warnings: 0

mysql> # Verifying attributes added in contact\_info table  
mysql> desc contact\_info;

-----  
desc contact\_info  
-----

Field	Type	Null	Key	Default	Extra
firstName	varchar(25)	YES		NULL	
middleInitial	char(1)	YES		NULL	
lastName	varchar(25)	YES		NULL	
suffixDescription	varchar(5)	YES		NULL	
titleDescription	varchar(5)	YES		NULL	
jobTitle	varchar(40)	YES		NULL	
department	varchar(30)	YES		NULL	
email	varchar(35)	NO	PRI	NULL	
url	varchar(50)	YES		NULL	
IMAddress	varchar(25)	YES		NULL	
phoneNumber	varchar(25)	YES		NULL	
phoneDescription	varchar(10)	YES		NULL	
birthday	date	YES		NULL	
notes	varchar(255)	YES		NULL	
companyName	varchar(30)	YES		NULL	
addressLine1	varchar(40)	YES		NULL	
addressLine2	varchar(40)	YES		NULL	
city	varchar(20)	YES		NULL	
state_province	varchar(15)	YES		NULL	
zip_postalcode	varchar(10)	YES		NULL	
country_region	varchar(15)	YES		NULL	
companyURL	varchar(50)	YES		NULL	
companyPhone	varchar(12)	YES		NULL	
contactID	varchar(9)	YES		NULL	
suffixID	varchar(9)	YES		NULL	
titleID	varchar(9)	YES		NULL	
companyID	varchar(9)	YES		NULL	
phonetypeID	varchar(9)	YES		NULL	

28 rows in set (0.03 sec)

mysql> # Add constraints to the table  
mysql> SOURCE D:\DATABASE\HW\HW03\Joshi\_constraints.sql

-----  
alter table contact\_info modify firstName varchar(20) NOT NULL  
-----

Query OK, 5 rows affected (0.08 sec)  
Records: 5 Duplicates: 0 Warnings: 0

-----  
alter table contact\_info modify lastName varchar(25) NOT NULL  
-----

Query OK, 0 rows affected (0.09 sec)  
Records: 0 Duplicates: 0 Warnings: 0

-----

```
alter table contact_info modify email varchar(30) NOT NULL
```

```
-----
```

```
Query OK, 5 rows affected (0.07 sec)
```

```
Records: 5  Duplicates: 0  Warnings: 0
```

```
-----
```

```
alter table contact_info modify phoneDescription varchar(10) NOT NULL
```

```
-----
```

```
Query OK, 0 rows affected (0.09 sec)
```

```
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> # Verifying constraints added to contact_info table
```

```
mysql> desc contact_info;
```

```
-----
```

```
desc contact_info
```

```
-----
```

Field	Type	Null	Key	Default	Extra
firstName	varchar(20)	NO		NULL	
middleInitial	char(1)	YES		NULL	
lastName	varchar(25)	NO		NULL	
suffixDescription	varchar(5)	YES		NULL	
titleDescription	varchar(5)	YES		NULL	
jobTitle	varchar(40)	YES		NULL	
department	varchar(30)	YES		NULL	
email	varchar(30)	NO	PRI	NULL	
url	varchar(50)	YES		NULL	
IMAddress	varchar(25)	YES		NULL	
phoneNumber	varchar(25)	YES		NULL	
phoneDescription	varchar(10)	NO		NULL	
birthday	date	YES		NULL	
notes	varchar(255)	YES		NULL	
companyName	varchar(30)	YES		NULL	
addressLine1	varchar(40)	YES		NULL	
addressLine2	varchar(40)	YES		NULL	
city	varchar(20)	YES		NULL	
state_province	varchar(15)	YES		NULL	
zip_postalcode	varchar(10)	YES		NULL	
country_region	varchar(15)	YES		NULL	
companyURL	varchar(50)	YES		NULL	
companyPhone	varchar(12)	YES		NULL	
contactID	varchar(9)	YES		NULL	
suffixID	varchar(9)	YES		NULL	
titleID	varchar(9)	YES		NULL	
companyID	varchar(9)	YES		NULL	
phonetypeID	varchar(9)	YES		NULL	

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

```
mysql> # Update the existing records in the table
```

```
mysql> SOURCE D:\DATABASE\HW\HW03\Joshi_update.sql
```

```
-----
```

```
update contact_info set contactID=111, suffixID=1, titleID=1,  
companyID=123, phonetypeID=1 where firstName like "Jacob"
```

```
-----
```



Query OK, 1 row affected (0.03 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

-----

update contact\_info set contactID=222, titleID =2, companyID=123,  
phonetypeID=1 where firstName like "Charlene"

-----

Query OK, 1 row affected (0.00 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

-----

update contact\_info set contactID=333, titleID =5, companyID=456,  
phonetypeID=2 where firstName like "Karson"

-----

Query OK, 1 row affected (0.00 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

-----

update contact\_info set contactID=444, suffixID=2, titleID=4,  
companyID=231, phonetypeID=1 where firstName like "Les"

-----

Query OK, 1 row affected (0.00 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

-----

update contact\_info set contactID=555, titleID =3, phonetypeID=3 where  
firstName like "Rachel"

-----

Query OK, 1 row affected (0.00 sec)  
Rows matched: 1 Changed: 1 Warnings: 0

mysql> # Display first name, last name and the value of all attribute  
values that were added to the table.

mysql> select firstName , lastName , contactID, suffixID, titleID,  
companyID, phonetypeID from contact\_info;

-----

select firstName , lastName , contactID, suffixID, titleID, companyID,  
phonetypeID from contact\_info

-----

```
+-----+-----+-----+-----+-----+-----+-----+
| firstName | lastName | contactID | suffixID | titleID | companyID | phonetypeID |
+-----+-----+-----+-----+-----+-----+-----+
| Charlene  | Reynolds | 222       | NULL     | 2       | 123       | 1           |
| Rachel    | Woods   | 555       | NULL     | 3       | NULL      | 3           |
| Les       | Nelson  | 444       | 2        | 4       | 231       | 1           |
| Karson    | Campbell | 333       | NULL     | 5       | 456       | 2           |
| Jacob     | Jacobson | 111       | 1        | 1       | 123       | 1           |
```

```

+-----+-----+-----+-----+-----+-----+-----+
-----+
5 rows in set (0.00 sec)

```

```

mysql> # Add primary key to the table (Composite Primary Key consisting
phoneNumber,contactID). Before that dropping existing Primary Key on
contact_info table.

```

```

mysql> alter table contact_info DROP PRIMARY KEY;
-----
alter table contact_info DROP PRIMARY KEY
-----

```

```

Query OK, 5 rows affected (0.09 sec)
Records: 5 Duplicates: 0 Warnings: 0

```

```

mysql> SOURCE D:\DATABASE\HW\HW03\Joshi_pk.sql
-----
alter table contact_info add CONSTRAINT PK_contact_info PRIMARY
KEY(phoneNumber,contactID)
-----

```

```

Query OK, 0 rows affected (0.13 sec)
Records: 0 Duplicates: 0 Warnings: 0

```

```

mysql> desc contact_info;
-----
desc contact_info
-----

```

Field	Type	Null	Key	Default	Extra
firstName	varchar(20)	NO		NULL	
middleInitial	char(1)	YES		NULL	
lastName	varchar(25)	NO		NULL	
suffixDescription	varchar(5)	YES		NULL	
titleDescription	varchar(5)	YES		NULL	
jobTitle	varchar(40)	YES		NULL	
department	varchar(30)	YES		NULL	
email	varchar(30)	NO		NULL	
url	varchar(50)	YES		NULL	
IMaddress	varchar(25)	YES		NULL	
phoneNumber	varchar(25)	NO	PRI	NULL	
phoneDescription	varchar(10)	NO		NULL	
birthday	date	YES		NULL	
notes	varchar(255)	YES		NULL	
companyName	varchar(30)	YES		NULL	
addressLine1	varchar(40)	YES		NULL	
addressLine2	varchar(40)	YES		NULL	
city	varchar(20)	YES		NULL	
state_province	varchar(15)	YES		NULL	
zip_postalcode	varchar(10)	YES		NULL	
country_region	varchar(15)	YES		NULL	
companyURL	varchar(50)	YES		NULL	
companyPhone	varchar(12)	YES		NULL	
contactID	varchar(9)	NO	PRI	NULL	
suffixID	varchar(9)	YES		NULL	
titleID	varchar(9)	YES		NULL	
companyID	varchar(9)	YES		NULL	
phonetypeID	varchar(9)	YES		NULL	

```
+-----+-----+-----+-----+-----+-----+
28 rows in set (0.00 sec)
```

```
mysql> # Display first name, last name, contactID and phone number before
deleting the records.
```

```
mysql> SOURCE D:\DATABASE\HW\HW03\Joshi_delete.sql
```

```
-----
select firstName , lastName , contactID, phoneNumber from contact_info
-----
```

```
+-----+-----+-----+-----+
| firstName | lastName | contactID | phoneNumber |
+-----+-----+-----+-----+
| Jacob     | Jacobson | 111       | 323-546-6834 ext.29 |
| Charlene  | Reynolds | 222       | 323-546-6834 ext.30 |
| Les       | Nelson   | 444       | 585-475-0000        |
| Rachel    | Woods    | 555       | 585-532-4332        |
| Karson    | Campbell | 333       | 585-544-1212        |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
-----
delete from contact_info where phoneNumber="585-544-1212"and
contactID="333"
-----
```

```
Query OK, 1 row affected (0.01 sec)
```

```
-----
delete from contact_info where phoneNumber="585-532-4332" and
contactID="555"
-----
```

```
Query OK, 1 row affected (0.27 sec)
```

```
-----
select firstName , lastName , contactID, phoneNumber from contact_info
-----
```

```
+-----+-----+-----+-----+
| firstName | lastName | contactID | phoneNumber |
+-----+-----+-----+-----+
| Jacob     | Jacobson | 111       | 323-546-6834 ext.29 |
| Charlene  | Reynolds | 222       | 323-546-6834 ext.30 |
| Les       | Nelson   | 444       | 585-475-0000        |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> notee
```