Name: Jin Lin

Course: Data Mgt and Database Design

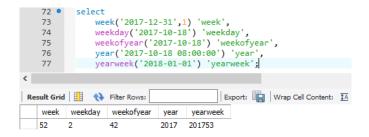
Course ID: INFO6210 18650 SEC 05

Instructor: Yusuf Ozbek

Date/Time Query



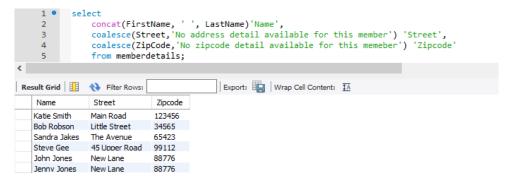
```
31 •
                          select
               32
                               get_format(date,'ISO')'get_format',
                               hour('08:09:10')'hour
               33
                               last_day('2016-02-18')'last_day',
               34
                               localtime(),localtimestamp()
               35
               36
         <
           Export: Wrap Cell Content: IA
                             hour last_day
                                                       localtime()
                                                                                localtimestamp()
                                      2016-02-29
                                                      2017-10-18 21:30:49 2017-10-18 21:30:49
    37 •
              select
                  makedate(2017,128) 'makedate',
maketime(3,4,5) 'maketime',
microsecond('12:00:00.541223') 'microsecond',
    38
    39
    40
                  minute('12:04:00') 'minute',
month('2017-10-18 08:00:01')'month',monthname('2017-10-18 08:00:01')'monthname';
    41
    42
Export: Wrap Cell Content: ‡A
   makedate
                maketime microsecond minute month monthname
  2017-05-08
                03:04:05 541223
                                                  10
                                                          October
                  43 • select
                  44
                                  now(),
                                  period_add(1702,100)'period_add',
                  45
                  46
                                  period_diff(1203,1708) 'period_diff',
                                 quarter('2017-06-30')'quarter',
SECOND('10:05:03')'second',
sec_to_time(7199)'sec_to_time';
                  47
                  48
                  49
             <
             Export: Wrap Cell Content:
                                          period_add period_diff
                                                                     quarter
                                                                                second sec_to_time
                 2017-10-18 21:39:37
                                         202506
                                                         -65
                                                                      2
                                                                                 3
                                                                                           01:59:59
            50 • select
                           str_to_date('May 1, 2013','%M %d,%Y') 'str_to_date',
subdate('2017-10-18',interval 20 day) 'subdate',
subtime('2017-10-18 08:00:00','123 03:05:20') 'subtime',
            51
            52
            53
                            sysdate(),
            54
            55
                            time('2017-10-18 08:00:00') 'time';
            56
       Export: Wrap Cell Content: ‡A
            str_to_date subdate
                                          subtime
                                                                  sysdate()
                                                                                           time
           2013-05-01 2017-09-28 2017-09-13 09:00:01
                                                                 2017-10-18 21:44:04
                                                                                          08:00:00
    57 • select
                 tet
timediff('2017-10-18 08:00:00','2017-10-18 08:00:00.000001') 'timediff',
timestamp('2017-10-18 08:00:00','18:32:26') 'timestamp',
timestampadd(week,1,'2017-10-18') 'timestampadd',
timestampdiff(second,'2017-10-18 08:00:00','2017-10-18 07:00:00') 'timestampdiff',
time_format('23:45:56', '%H %k %h %I %l') 'time_format';
    58
    59
    60
    61
    62
    63
                                                Export: Wrap Cell Content: IA
timediff
                                          timestampadd timestampdiff time_format
                     timestamp
   -00:00:00.00001 2017-10-19 02:32:26 2017-10-25
                                                        -3600
                                                                      23 23 11 11 11
          64 •
                  SELECT
                       time_to_sec('32:23:00')'time_to_sec',
to_days(20171018) 'to_days',
to_seconds(20171018) 'to_seconds',
unix_timestamp() 'unix_timestamp',
utc_date(),utc_time(),utc_timestamp()
          65
          66
          67
          68
          69
          70
      Export: Wrap Cell Content: 1A
          time_to_sec to_days to_seconds
                                                 unix_timestamp utc_date() utc_time() utc_timestamp()
        116580
                       736985 63675504000
                                                1508378198
                                                                 2017-10-19 01:56:38 2017-10-19 01:56:38
```



Beginning SQL

Chapter 5

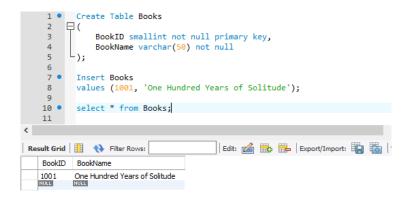
Exercise 1



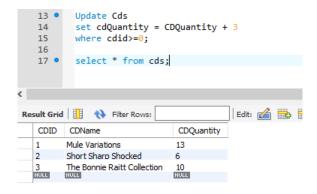
Beginning MySQL

Chapter 6

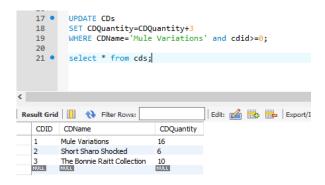
Exercise 1



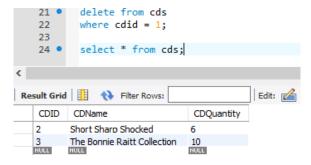
Exercise 2



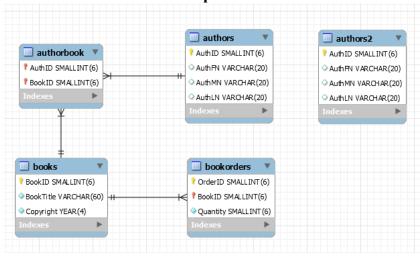
Exercise 4



Exercise 5

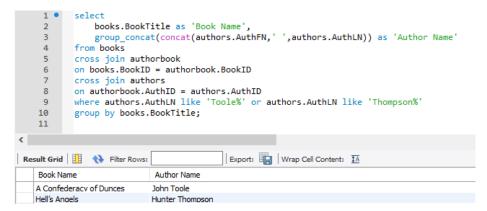


Chapter 10

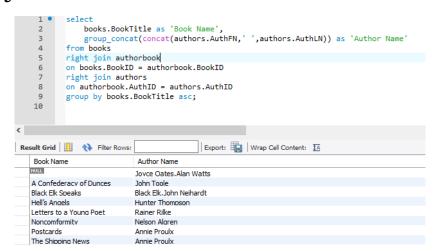


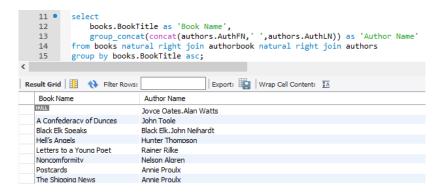
```
1 •
            select
                 books.BookTitle as 'Book Name',
     2
     3
                 group_concat(concat(authors.AuthFN,' ',authors.AuthLN)) as 'Author Name'
            from books, authors, authorbook
where books.BookID = authorbook.BookID and
     4
     5
     6
                   authors.AuthID = authorbook.AuthID
            group by BookTitle order by books.BookTitle asc;
     8
Export: Wrap Cell Content: IA
    Book Name
                           Author Name
   A Confederacy of Dunces
                           John Toole
                           Black Elk. John Neihardt
   Black Elk Speaks
   Hell's Anaels
                           Hunter Thompson
   Letters to a Young Poet
                           Rainer Rilke
   Noncomformity
                           Nelson Alaren
   Postcards
                           Annie Proulx
  The Shipping News
                           Annie Proulx
```

Exercise 2



Exercise 3

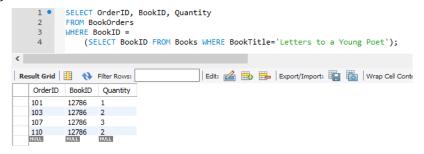




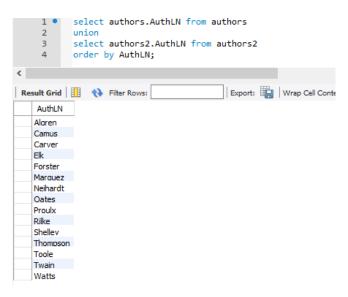
Exercise 5



Exercise 6



Exercise 7



Beginning Database Design

Chapter 9

Exercise 1

Considering that customer to order is one-to-many relationship as well as that product to order

is one-to-many relationship, the order table should have foreign key referenced the table customer and the table product.

The order table should be created as following:

```
CREATE TABLE Order

(order_num INT PRIMARY KEY,
product INT NOT NULL FOREIGN KEY REFERENCES Product,
customer INT NOT NULL FOREIGN KEY REFERENCES Customer,
quantity INT NOT NULL, date DATE NOT NULL);
```

```
This module should have make table, model table, type table.
```

```
Make table:
         create table make
         (
              makeName varchar(50) not null primary key
         );
Model table:
         create table model
              modelName varchar(50) not null,
              makeName varchar(50) not null foreign key references make
         );
Type table:
         create table Version
         (
              versionID smallint not null auto increment primary key,
              typeName varchar(50) not null,
              capacity varchar(50) not null,
              transmission varchar(20) not null,
              price int not null,
              modelName varchar(50) not null,
              makeName varchar(50) not null,
              foreign key (modelName) references model,
              foreign key (makeName) references model
              );
```