

CT230 Database Systems – Assignment 2

By Luke Gibbons – 05/10/2018

Plagiarism Declaration:

“I am aware of what plagiarism is and include this here to confirm that this work is my own”

Screenshot of SQL command output for date, time, name & student ID:

MySQL » mysql1.it.nuigalway.ie » mydb4338 » SQL command			
SQL command			
<pre>select now(), database(), "Luke Gibbons", "15553883"</pre>			
now()	database()	Luke Gibbons	15553883
2018-10-05 17:55:20	mydb4338	Luke Gibbons	15553883

Create table command screenshots:

Author & book:

MySQL » mysql1.it.nuigalway.ie » mydb4338 » SQL command	
SQL command	
<pre>CREATE TABLE author(aID int, fName varchar(255), surname varchar(255), CONSTRAINT author_pk PRIMARY KEY (aID)); CREATE TABLE book(isbn int, title varchar(255), authorID int, genre varchar(255), pubYear int, publisher varchar(255), rrPrice float, avgRating int, CONSTRAINT book_pk PRIMARY KEY (isbn), CONSTRAINT book_f1 FOREIGN KEY (authorID) REFERENCES author(aID));</pre>	

Bookshop:

MySQL » mysql1.it.nuigalway.ie » mydb4338 » SQL command

SQL command

```
CREATE TABLE bookShop(  
  shopNo int,  
  shopName varchar(255),  
  street varchar(255),  
  city varchar(255),  
  county varchar(255),  
  CONSTRAINT bookShop_pk PRIMARY KEY (shopNo)  
);
```

Orders & orderDetails:

MySQL » mysql1.it.nuigalway.ie » mydb4338 » SQL command

SQL command

```
county varchar(255),  
CONSTRAINT bookShop_pk PRIMARY KEY (shopNo)  
);  
  
CREATE TABLE orders(  
  orderNo int,  
  sNo int,  
  oDate date,  
  salesRep varchar(255),  
  CONSTRAINT orders_pk PRIMARY KEY (orderNo),  
  CONSTRAINT orders_f1 FOREIGN KEY (sNo) REFERENCES bookShop(shopNo)  
);  
  
CREATE TABLE orderDetails(  
  oNo int,  
  bookISBN int,  
  quantity int,  
  CONSTRAINT orderDetails_pk PRIMARY KEY (oNo, bookISBN),  
  CONSTRAINT orderDetails_f1 FOREIGN KEY (oNo) REFERENCES orders(orderNo),  
  CONSTRAINT orderDetails_f2 FOREIGN KEY (bookISBN) REFERENCES book(isbn)  
);
```

Insert commands & data in tables

Author:

MySQL » mysql1.it.nuigalway.ie » mydb4338 » SQL command

SQL command

```
INSERT INTO author (aID, fName, surname)
VALUES (1, 'Anne', 'Enright'),
(2, 'John', 'Mc Gahern'),
(3, 'Emma', 'Donoghue'),
(4, 'William', 'Trevor'),
(5, 'Donal', 'Ryan'),
(6, 'Colm', 'Toibin'),
(7, 'Maggie', 'O' Farrell'),
(8, 'Joseph', 'O' Connor'),
(9, 'Colum', 'Mc Cann'),
(10, 'Chimamanda Ngozi', 'Adichie'),
(11, 'Rachel', 'Cusk'),
(12, 'Richard', 'Flanagan'),
(13, 'Celeste', 'Ng')
```

MySQL » mysql1.it.nuigalway.ie » mydb4338 » Select

Select: author

Select data Show structure Alter table New item

Select Search Sort Limit 50 10

SELECT * FROM `author` LIMIT 50 (0.001 s) Edit

Modify	aID	fName	surname
<input type="checkbox"/> edit	1	Anne	Enright
<input type="checkbox"/> edit	2	John	Mc Gahern
<input type="checkbox"/> edit	3	Emma	Donoghue
<input type="checkbox"/> edit	4	William	Trevor
<input type="checkbox"/> edit	5	Donal	Ryan
<input type="checkbox"/> edit	6	Colm	Toibin
<input type="checkbox"/> edit	7	Maggie	O' Farrell
<input type="checkbox"/> edit	8	Joseph	O' Connor
<input type="checkbox"/> edit	9	Colum	Mc Cann
<input type="checkbox"/> edit	10	Chimamanda Ngozi	Adichie
<input type="checkbox"/> edit	11	Rachel	Cusk
<input type="checkbox"/> edit	12	Richard	Flanagan

Books:

MySQL » mysql1.it.nuigalway.ie » mydb4338 » SQL command

SQL command

```
INSERT INTO book(isbn, title, authorID, genre, pubYear, publisher, rrPrice, avgRating)
VALUES (111, 'Outline', 11, 'Novel', 2015, 'Farrar, Straus and Giroux', 15.3, 3.5),
(112, 'Transit', 11, 'Novel', 2017, 'Farrar, Straus and Giroux', 11.5, 4),
(131, 'Kudos', 11, 'Novel', 2018, 'Farrar, Straus and Giroux', 13.99, 4.5),
(123, 'Forgotten Waltz', 1, 'Fiction', 2011, 'Jonathan Cape', 12, 3),
(124, 'The Gathering', 1, 'Novel', 2007, 'Jonathan Cape', 14, 3),
(125, 'The Green Road', 1, 'Novel', 2015, 'W.W. Norton and Company', 15, 3.5),
(323, 'Room', 3, 'Fiction', 2010, 'Brown', 12, 4.5),
(324, 'The Sealed Letter', 3, 'Fiction', 2008, 'Harper Collins', 10, 4),
(325, 'The Wonder', 3, 'Fiction', 2016, 'Little Brown', 20, 4),
(441, 'Purple Hibiscus', 10, 'Novel', 2012, 'Algonquin Books', 10, 4.5),
(442, 'Americanah', 10, 'Novel', 2013, 'Anchor', 25, 4.5),
(423, 'Love and Summer', 4, 'Novel', 2009, 'Viking', 6.5, 2.5),
(501, 'The Spinning Heart', 5, 'Fiction', 2012, 'Lilliput Press', 15.3, 4),
(502, 'A Slanting of the Sun', 5, 'Fiction', 2015, 'Transworld Publishers', 12.99, 4.5),
(503, 'The Narrow Road to the Deep North', 12, 'Novel', 2014, 'Vintage', 11.99, 4.5),
(504, 'Everything I Never Told You', 13, 'Novel', 2014, 'Penguin', 13.5, 4),
(505, 'Little Fires Everywhere', 13, 'Novel', 2017, 'Penguin', 18.5, 4.5),
(623, 'The Empty Family', 6, 'Short Stories', 2010, 'Scribner', 8.5, 4),
(624, 'Brooklyn', 6, 'Novel', 2010, 'Viking', 10, 4),
(628, 'The Testament of Mary', 6, 'Novella', 2012, 'Viking', 11.5, 3.5),
(629, 'Nora Webster', 6, 'Novel', 2014, 'Scribner', 12, 3.5),
(630, 'House of Names', 6, 'Novel', 2017, 'Scribner', 14.4, 4),
(711, 'Instructions for a Heatwave', 7, 'Fiction', 2013, 'Vintage', 9.7, 4),
(923, 'Thirteen Ways of Looking', 9, 'Fiction', 2015, 'Harper Collins', 15, 4.5);
```

Select: book

Select data

Show structure

Alter table

New item

Select

Search

Sort

Limit

50

Text length

100

Action

Select

SELECT * FROM `book` LIMIT 50 (0.001 s) Edit

Modify	isbn	title	authorID	genre	pubYear	publisher	rrPrice	avgRating
<input type="checkbox"/> edit	111	Outline	11	Novel	2015	Farrar, Straus and Giroux	15.3	4
<input type="checkbox"/> edit	112	Transit	11	Novel	2017	Farrar, Straus and Giroux	11.5	4
<input type="checkbox"/> edit	123	Forgotten Waltz	1	Fiction	2011	Jonathan Cape	12	3
<input type="checkbox"/> edit	124	The Gathering	1	Novel	2007	Jonathan Cape	14	3
<input type="checkbox"/> edit	125	The Green Road	1	Novel	2015	W.W. Norton and Company	15	4
<input type="checkbox"/> edit	131	Kudos	11	Novel	2018	Farrar, Straus and Giroux	13.99	5
<input type="checkbox"/> edit	323	Room	3	Fiction	2010	Brown	12	5
<input type="checkbox"/> edit	324	The Sealed Letter	3	Fiction	2008	Harper Collins	10	4
<input type="checkbox"/> edit	325	The Wonder	3	Fiction	2016	Little Brown	20	4
<input type="checkbox"/> edit	423	Love and Summer	4	Novel	2009	Viking	6.5	3
<input type="checkbox"/> edit	441	Purple Hibiscus	10	Novel	2012	Algonquin Books	10	5
<input type="checkbox"/> edit	442	Americanah	10	Novel	2013	Anchor	25	5

Bookshop:

MySQL » mysql1.it.nuigalway.ie » mydb4338 » SQL command

SQL command

```
INSERT INTO bookShop (shopNo, shopName, street, city, county)
VALUES (1,'Easons','Shop Street','Galway','Galway'),
(2,'Dubray','Shop Street','Galway','Galway'),
(3,'Charlie Byrnes','Middle Street','Galway','Galway'),
(4,'Easons','O''Connell Street','Dublin','Dublin'),
(5,'Easons','O''Connell Street','Limerick','Limerick'),
(7,'Village Bookshop','Moycullen','Galway','Galway')
```

Select: bookShop

Select data

Show structure

Alter table

New item

Select

Search

Sort

Limit

50

Text length

100

Action

Select

```
SELECT * FROM `bookShop` LIMIT 50 (0.001 s) Edit
```

Modify	shopNo	shopName	street	city	county
<input type="checkbox"/> edit	1	Easons	Shop Street	Galway	Galway
<input type="checkbox"/> edit	2	Dubray	Shop Street	Galway	Galway
<input type="checkbox"/> edit	3	Charlie Byrnes	Middle Street	Galway	Galway
<input type="checkbox"/> edit	4	Easons	O'Connell Street	Dublin	Dublin
<input type="checkbox"/> edit	5	Easons	O'Connell Street	Limerick	Limerick
<input type="checkbox"/> edit	7	Village Bookshop	Moycullen	Galway	Galway

Orders:

SQL command

```
INSERT INTO orders (orderNo, sNo, oDate, salesRep)
VALUES (1,1,'2018-09-10','Jar Lee'),
(2,1,'2018-09-17','Jar Lee'),
(3,2,'2018-09-21','Zoe Smith'),
(4,3,'2018-09-19','Zoe Smith'),
(5,3,'2018-09-21','John Cass'),
(6,7,'2018-09-27','John Cass'),
(7,4,'2018-09-26','Zoe Smith')
```

Select: orders

Select data

Show structure

Alter table

New item

Select

Search

Sort

Limit

50

Text length

100

```
SELECT * FROM `orders` LIMIT 50 (0.001 s) Edit
```

Modify	orderNo	sNo	oDate	salesRep
<input type="checkbox"/> edit	1	1	2018-09-10	Jar Lee
<input type="checkbox"/> edit	2	1	2018-09-17	Jar Lee
<input type="checkbox"/> edit	3	2	2018-09-21	Zoe Smith
<input type="checkbox"/> edit	4	3	2018-09-19	Zoe Smith
<input type="checkbox"/> edit	5	3	2018-09-21	John Cass
<input type="checkbox"/> edit	6	7	2018-09-27	John Cass
<input type="checkbox"/> edit	7	4	2018-09-26	Zoe Smith

Order Details:

MySQL » mysql1.it.nuigalway.ie » mydb4338 » SQL command

SQL command

```
INSERT INTO orderDetails (oNo, bookISBN, quantity)
VALUES (1,124,5), (1,125,10), (1,323,10),
(1,325,5), (1,442,5), (2,423,5),
(2,629,5), (2,630,5), (2,505,5),
(3,323,5), (3,504,5), (3,505,3),
(3,711,3), (4,111,10), (4,112,10),
(5,442,5), (5,501,5), (5,504,5),
(5,624,4), (6,125,6), (6,131,10),
(6,325,12), (6,502,12), (6,505,12),
(7,923,10)
```

MySQL » mysql1.it.nuigalway.ie » mydb4338

Select: orderDetails

Select dataShow structureAlter tableNew

Select

Search

Sort

Limit50

SELECT * FROM `orderDetails` LIMIT 50 (0.001 s) Edit

Modify	oNo	bookISBN	quantity
<input type="checkbox"/> edit	1	124	5
<input type="checkbox"/> edit	1	125	10
<input type="checkbox"/> edit	1	323	10
<input type="checkbox"/> edit	1	325	5
<input type="checkbox"/> edit	1	442	5
<input type="checkbox"/> edit	2	423	5
<input type="checkbox"/> edit	2	505	5
<input type="checkbox"/> edit	2	629	5
<input type="checkbox"/> edit	2	630	5
<input type="checkbox"/> edit	3	323	5
<input type="checkbox"/> edit	3	504	5
<input type="checkbox"/> edit	3	505	3

Database Schema:

MySQL » mysql1.it.nuigalway.ie » mydb4338 » Database schema

Database schema: mydb4338

