Prac #9
SQL Practice III:
Writing/Executing SQL queries – Further Exercises

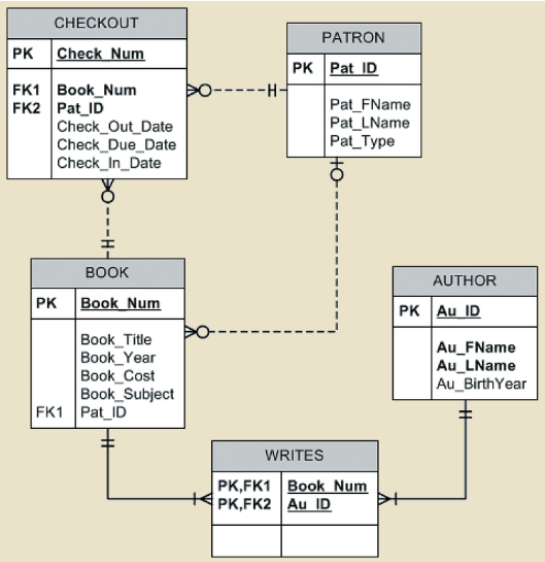
This prac consists of two section of tasks.

For the first task section, you are going to practice some more advanced SQL query techniques to extract useful information using MySQL Workbench. In particular, you will practice to use subqueries for various purposes. To be continuous from the previous prac, you will use the same library database you created and used in previous pracs, and write a number of SQL queries to extract information from the database.

For the second task section, you are going to practice your overall SQL query techniques using another database provided.

- **Learning outcomes and objectives**
  Student will be able to
  - write subqueries when it is necessary to process data based on other processed data
  - apply various SQL query techniques for a specific database model provided.

- **Task 1 Exercises**
  Open the library database you created in the previous lab on MySQL Workbench. The conceptual model of the database is presented in the ERD as shown here.

  Use this ERD as a quick reference when you compose SQL queries for Task 1 exercises.

  Solutions are provided for you for some exercises. For each of these exercises, you will need to write/save an SQL query (though some exercises already show solutions, you are always recommended to write and run the code yourself).

  Do not forget to save each query as soon as after writing/running it. For example, save the query as 'Q1.sql' for the first question. You are required to submit a zipped directory containing all query files you completed to be marked off.

  For each of the following exercises (Q1~Q5), there may be some other various solutions but you are in particular required to compose SQL query by including a sub-query.

  1. Write a query to display the book number, title, and cost of books that have the lowest cost of any books in the system. Sort the results by book number. (See the figure below for the output)

BOOK_NUM	BOOK_TITLE	BOOK_COST
5239	J++ in Mobile Apps	49.95
5241	JAVA First Steps	49.95
5248	What You Always Wanted to Know About Database, But Were Afraid to Ask	49.95
5254	Coding Style for Maintenance	49.95

Answer provided:

```
SELECT BOOK_NUM, BOOK_TITLE, BOOK_COST
FROM BOOK
WHERE BOOK_COST = (SELECT Min(BOOK_COST) FROM BOOK)
ORDER BY BOOK_NUM;
```

2. Write a query to display the author ID, first and last name for all authors that have never written a book with the subject Programming. Sort the results by author last name. (See the figure below for the output)

AU_ID	AU_FNAME	AU_LNAME
581	Manish	Aggerwal
251	Hugo	Bruer
262	Xia	Chiang
438	Perry	Pearson
284	Trina	Tankersly
383	Neal	Walsh

3. Write a query to display the book number, title, subject, average cost of books within that subject, and the difference between each book's cost and the average cost of books in that subject. Sort the results by book title. (See the figure below for the output)

BOOK_NUM	BOOK_TITLE	BOOK_SUBJECT	AVGCOST	DIFFERENCE
5235	Beginner's Guide to JAVA	Programming	66.62	-6.67
5236	Database in the Cloud	Cloud	72.45	7.5
5237	Mastering the database environment	Database	84.95	5
5238	Conceptual Programming	Programming	66.62	-6.67
5239	J++ in Mobile Apps	Programming	66.62	-16.67
5240	iOS Programming	Programming	66.62	13.33
5241	JAVA First Steps	Programming	66.62	-16.67
5242	C# in Middleware Deployment	Middleware	89.95	-30
5243	DATABASES in Theory	Database	84.95	45
5244	Cloud-based Mobile Applications	Cloud	72.45	-2.5
5245	The Golden Road to Platform independence	Middleware	89.95	30
5246	Capture the Cloud	Cloud	72.45	-2.5
5247	Shining Through the Cloud: Sun Programming	Programming	66.62	43.33
5248	What You Always Wanted to Know About Database, But Were Afraid to Ask	Database	84.95	-35
5249	Starlight Applications	Cloud	72.45	-2.5
5250	Reengineering the Middle Tier	Middleware	89.95	0
5251	Thoughts on Revitalizing Ruby	Programming	66.62	-6.67
5252	Beyond the Database Veil	Database	84.95	-15
5253	Virtual Programming for Virtual Environments	Programming	66.62	13.33
5254	Coding Style for Maintenance	Programming	66.62	-16.67

Answer provided:

```
SELECT BOOK_NUM, BOOK_TITLE, BOOK.BOOK_SUBJECT, Round(AVGCOST,
2) AS "Average Subject Cost", BOOK_COST - Round(AVGCOST, 2) AS
DIFFERENCE
FROM BOOK JOIN (SELECT BOOK_SUBJECT, Avg(BOOK_COST) AS AVGCOST
                FROM BOOK BOOK2
                GROUP BY BOOK_SUBJECT) AS SUBAVGS ON
BOOK.BOOK_SUBJECT = SUBAVGS.BOOK_SUBJECT
ORDER BY BOOK_TITLE;
```

4. Write a query to display the book number, title, subject, author last name, and the number of books written by that author. Limit the results to books in the Cloud subject. Sort the results by book title and then author last name. (See the figure below for the output)

BOOK_NUM	BOOK_TITLE	BOOK_SUBJECT	AU_LNAME	Num Books by Author
5246	Capture the Cloud	Cloud	Bruer	2
5244	Cloud-based Mobile Applications	Cloud	Chiang	3
5244	Cloud-based Mobile Applications	Cloud	Tankersly	1
5236	Database in the Cloud	Cloud	Walsh	2
5249	Starlight Applications	Cloud	Chiang	3

5. Write a query to display the lowest average cost of books within a subject and the highest average cost of books within a subject. (See the figure below for the output)

Lowest Avg Cost	Highest Avg Cost
66.62	89.95

- **Task 2 Exercises**

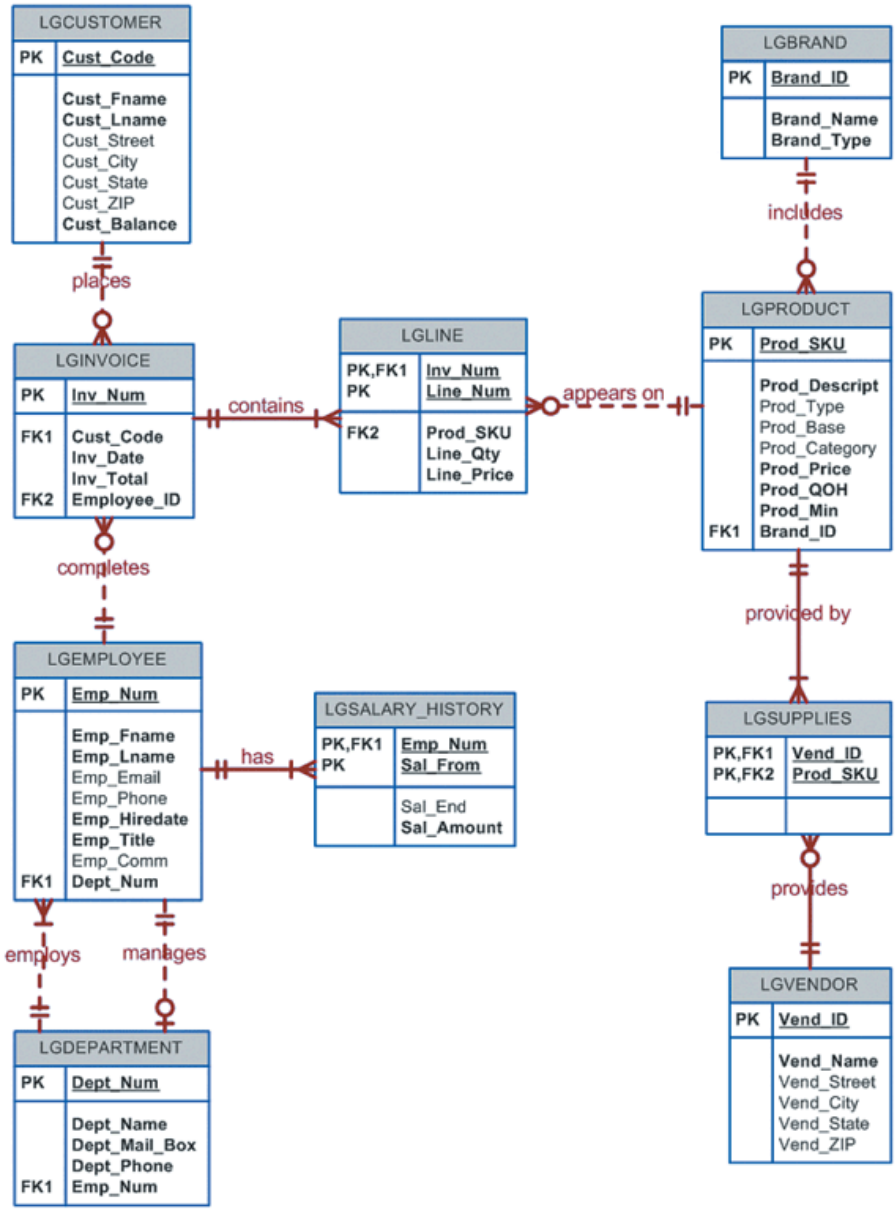
  For this task exercises, you will use a database named LargeCo database. Using the text file provided: LargeCo_MySQL.txt, you are required to build this database on MySQL Workbench before proceeding the following SQL exercises.

  The LargeCo database stores data for a company that sells paint products. The company tracks the sale of products to customers. The database keeps data on customers (LGCUSTOMER), sales (LGINVOICE), products (LGPRODUCT), which products are on which invoices (LGLINE), employees (LGEMPLOYEE), the salary history of each employee (LGSALARY_HISTORY), department (LGDEPARTMENT), product brands (LGBRAND), vendors (LGVENDOR), and which vendors supply each product (LGSUPPLIES).

  Use the following ERD as a quick reference when you compose SQL queries for this task exercises.

  Note:
  Some of the tables contain only a few rows of data, while other tables are quite larger; for example, there are only eight departments, but more than 3,300 invoices containing over 11,000 invoice lines. For the following SQL problems, a figure of the correct output for each question is provided. If the output of the query is very large, only the first several rows of the output are shown.

  Reference:
  Coronel/Morris textbook 13th edition Ch7 Problems Q27~Q55.



1. Write a query to display the first name, last name, and email address of employees hired from January 1, 2005, to December 31, 2014. Sort the output by last name and then by first name. (See the figure below for the output)

EMP_FNAME	EMP_LNAME	EMP_EMAIL
SUE	ASH	S.ASH98@LGCOMPANY.COM
ALIDA	BLACKWELL	A.BLACKW99@LGCOMPANY.COM
PHOEBE	BLEDSOE	P.BLEDSO99@LGCOMPANY.COM
VALARIE	BLEDSOE	V.BLEDSO99@LGCOMPANY.COM
WILFORD	BURGOS	W.BURGOS6@LGCOMPANY.COM
KASEY	CASH	K.CASH0@LGCOMPANY.COM
DANICA	CASTLE	C.DANICA99@LGCOMPANY.COM
DOUG	CAUDILL	C.DOUG0@LGCOMPANY.COM
LUCIO	CAUDILL	L.CAUDIL4@LGCOMPANY.COM
HANNAH	COLEMAN	H.COLEMA7@LGCOMPANY.COM
PHILLIS	CONKLIN	P.CONKLI4@LGCOMPANY.COM
LEE	CONNOR	L.CONNOR99@LGCOMPANY.COM

2. Write a query to display the first name, last name, phone number, title, and department number of employees who work in department 300 or have the title "CLERK I". Sort the results by last name and then by first name. (See the figure below for the output)

EMP_FNAME	EMP_LNAME	EMP_PHONE	EMP_TITLE	DEPT_NUM
LAVINA	ACEVEDO	862-6787	ASSOCIATE	300
LAUREN	AVERY	550-2270	SENIOR ASSOCIATE	300
ROSALBA	BAKER	632-8197	ASSOCIATE	300
FERN	CARPENTER	735-4820	PURCHASING SPECIALIST	300
LEEANN	CLINTON	616-9615	CLERK I	600
TANIKA	CRANE	449-6336	PURCHASING SPECIALIST	300
SAMMY	DIGGS	525-2101	SENIOR ASSOCIATE	300
LANA	DOWDY	471-8795	SENIOR ASSOCIATE	300
STEPHAINE	DUNLAP	618-8203	BUYER - RAW MATERIALS	300
HAL	FISHER	676-3662	SENIOR ASSOCIATE	300
LINDSAY	GOOD	337-9570	CLERK I	600
LEEANN	HORN	828-4361	SENIOR ASSOCIATE	300

3. Write a query to display the employee number, last name, first name, salary "from" date, salary "end" date, and salary amount for employees 83731, 83745, and 84039. Sort the results by last name and then by employee number and salary "from" date. (See the figure below for the output)

EMP_NUM	EMP_LNAME	EMP_FNAME	SAL_FROM	SAL_END	SAL_AMOUNT
83731	VARGAS	SHERON	7/15/2014	7/14/2015	43740
83731	VARGAS	SHERON	7/14/2015	7/13/2016	48110
83731	VARGAS	SHERON	7/14/2016	7/14/2017	49550
83731	VARGAS	SHERON	7/15/2017		51040
83745	SPICER	DWAIN	8/2/2011	8/1/2012	56020
83745	SPICER	DWAIN	8/2/2012	8/2/2013	57700
83745	SPICER	DWAIN	8/3/2013	8/1/2014	63470
83745	SPICER	DWAIN	8/2/2014	8/1/2015	68550
83745	SPICER	DWAIN	8/1/2015	7/31/2016	71980
83745	SPICER	DWAIN	8/1/2016	8/1/2017	74140
83745	SPICER	DWAIN	8/2/2017		76360
84039	COLEMAN	HANNAH	6/28/2014	6/27/2015	47380
84039	COLEMAN	HANNAH	6/27/2015	6/26/2016	51170
84039	COLEMAN	HANNAH	6/27/2016	6/27/2017	52700
84039	COLEMAN	HANNAH	6/28/2017		54280

4. Write a query to display the first name, last name, street, city, state, and zip code of any customer who purchased a Foresters Best brand top coat between July 15, 2015, and July 31, 2015. If a customer purchased more than one such product, display the customer's information only once in the output. Sort the result by state, last name, and then first name. (See the figure below for the output)

CUST_FNAME	CUST_LNAME	CUST_STREET	CUST_CITY	CUST_STATE	CUST_ZIP
LUPE	SANTANA	1292 WEST 70TH PLACE	Phenix City	AL	36867
HOLLIS	STILES	1493 DOLLY MADISON CIRCLE	Snow Hill	AL	36778
LISETTE	WHITTAKER	339 NORTHPARK DRIVE	Montgomery	AL	36197
DEANDRE	JAMISON	1571 HANES STREET	Miami	FL	33169
CATHLEEN	WHITMAN	1712 NORTHFIELD DRIVE	Marshallville	GA	31057
SHERIE	STOVER	640 MOUNTAIN VIEW DRIVE	Parksville	KY	40464
BRYCE	HOGAN	1860 IMLACH DRIVE	Newbury	MA	01951
SHELBY	SALAS	486 SUSITNA VIEW COURT	North Tisbury	MA	02568
JERMAINE	HANCOCK	1627 SAUNDERS ROAD	Ellicott City	MD	21041
WHITNEY	WHITFIELD	1259 RHONE STREET	Phippsburg	ME	04567
MONROE	ALLISON	272 SCHODDE STREET	Kalamazoo	MI	49002
DARLEEN	PARRA	561 COLLIE HILL WAY	Madison	MS	39130
CLINTON	AGUIRRE	1651 VANGUARD DRIVE	Franklinville	NC	27248
TOMMIE	PALMER	933 ELCADORE CIRCLE	Arapahoe	NC	28510
JEFFEREY	MCBRIDE	1043 ROCKRIDGE DRIVE	Glenwood	NJ	07418
SIDNEY	GARZA	772 SHEPPARD DRIVE	Fair Harbor	NY	11706
TAMELA	GUIDRY	1873 BAXTER ROAD	Brooklyn	NY	11252
KAREN	LEVINE	1534 PALMER COURT	Cincinnati	OH	45218
STEPHENIE	MCKENZIE	1039 DELAWARE PLACE	Wilkes Barre	PA	18763
LAN	NICHOLS	367 LAKEVIEW DRIVE	Pittsburgh	PA	15262
KASEY	SOSA	975 WEST 96TH AVENUE	Kinzers	PA	17535
SHELBY	THAYER	1634 RUANE ROAD	Bordeaux	SC	29835
WILSON	BELL	1127 CUNNINGHAM STREET	Louisville	TN	37777
RENATE	LADD	652 LEWIS STREET	Crystal City	VA	22202
MELONIE	JIMENEZ	848 DOWNEY FINCH LANE	East Monkton	VT	05443

5. Write a query to display the employee number, last name, email address, title, and department name of each employee whose job title ends in the word "ASSOCIATE". Sort the result by department name and employee title. (See the figure below for the output)

EMP_NUM	EMP_LNAME	EMP_EMAIL	EMP_TITLE	DEPT_NAME
84526	LASSITER	F.LASSIT8@LGCOMPANY.COM	ASSOCIATE	ACCOUNTING
83517	ALBRIGHT	SO.ALBRI96@LGCOMPANY.COM	ASSOCIATE	ACCOUNTING
84386	RIVERA	D.RIVERA76@LGCOMPANY.COM	ASSOCIATE	ACCOUNTING
83378	DUNHAM	F.DUNHAM5@LGCOMPANY.COM	ASSOCIATE	ACCOUNTING
83583	ROLLINS	M.ROLLIN99@LGCOMPANY.COM	ASSOCIATE	ACCOUNTING
83661	FINN	D.FINN87@LGCOMPANY.COM	ASSOCIATE	ACCOUNTING
84383	WASHINGTON	L.WASHIN98@LGCOMPANY.COM	ASSOCIATE	CUSTOMER SERVICE
84206	HEALY	N.HEALY82@LGCOMPANY.COM	ASSOCIATE	CUSTOMER SERVICE
83451	ELLIS	R.ELLIS81@LGCOMPANY.COM	ASSOCIATE	CUSTOMER SERVICE
84442	GREGORY	A.GREGOR95@LGCOMPANY.COM	ASSOCIATE	CUSTOMER SERVICE
84459	GILLIAM	E.GILLIA10@LGCOMPANY.COM	ASSOCIATE	CUSTOMER SERVICE
84300	SEAY	A.SEAY75@LGCOMPANY.COM	ASSOCIATE	CUSTOMER SERVICE

6. Write a query to display a brand name and the number of products of that brand that are in the database. Sort the result by brand name. (See the figure below for the output)

BRAND_NAME	NUMPRODUCTS
BINDER PRIME	27
BUSTERS	25
FORESTERS BEST	15
HOME COMFORT	36
LE MODE	36
LONG HAUL	41
OLDE TYME QUALITY	27
STUTTENFURST	27
VALU-MATTE	18

7. Write a query to display the total inventory – that is, the sum of all products on hand for each brand ID. Sort the result by brand ID in descending order. (See the figure below for the output)

BRAND_ID	TOTALINVENTORY
35	2431
33	2158
31	1117
30	3012
29	1735
28	2200
27	2596
25	1829
23	1293

8. Write a query to display the brand ID, brand name, and average price of products of each brand. Sort the result by brand name. Results are shown with the average price rounded to two decimal places. (See the figure below for the output) → Hint: use round() function to set the decimal places of the average price: `round(avg(prod_price),2)`

BRAND_ID	BRAND_NAME	AVGPRICE
33	BINDER PRIME	16.12
29	BUSTERS	22.59
23	FORESTERS BEST	20.94
27	HOME COMFORT	21.8
35	LE MODE	19.22
30	LONG HAUL	20.12
28	OLDE TYME QUALITY	18.33
25	STUTTENFURST	16.47
31	VALU-MATTE	16.84

9. Write a query to display the employee number, first name, last name, and largest salary amount for each employee in department 200. Sort the result by largest salary in descending order. (See the figure below for the output)

EMP_NUM	EMP_FNAME	EMP_LNAME	LARGESTSALARY
83509	FRANKLYN	STOVER	210000
83705	JOSE	BARR	147000
83537	CLEO	ENGLISH	136000
83565	LOURDES	ABERNATHY	133000
83593	ROSANNE	NASH	129000
83621	FONDA	GONZALEZ	126000
83649	DELMA	JACOB	123000
83677	HERB	MANNING	120000
83936	BRADFORD	BRAY	117000
83734	INEZ	ROCHA	112000
84049	LANE	BRANDON	110000
83763	JAIME	FELTON	107000

10. Write a query to display the department number, department name, department phone number, employee number, and last name of each department manager. Sort the result by department name. (See the figure below for the output)

DEPT_NUM	DEPT_NAME	DEPT_PHONE	EMP_NUM	EMP_LNAME
600	ACCOUNTING	555-2333	84583	YAZZIE
250	CUSTOMER SERVICE	555-5555	84001	FARMER
500	DISTRIBUTION	555-3624	84052	FORD
280	MARKETING	555-8500	84042	PETTIT
300	PURCHASING	555-4873	83746	RANKIN
200	SALES	555-2824	83509	STOVER
550	TRUCKING	555-0057	83683	STONE
400	WAREHOUSE	555-1003	83759	CHARLES

11. Write a query to display the vendor ID, vendor name, brand name, and number of products of each brand supplied by each vendor. Sort the result by vendor name, and then by brand name. (See the figure below for the output)

VEND_ID	VEND_NAME	BRAND_NAME	NUMPRODUCTS
8	Baltimore Paints Consolidated	BINDER PRIME	27
8	Baltimore Paints Consolidated	FORESTERS BEST	1
8	Baltimore Paints Consolidated	HOME COMFORT	36
8	Baltimore Paints Consolidated	LE MODE	3
8	Baltimore Paints Consolidated	LONG HAUL	3
8	Baltimore Paints Consolidated	VALU-MATTE	1
13	Boykin Chemical Workshop	BUSTERS	1
13	Boykin Chemical Workshop	LE MODE	2
13	Boykin Chemical Workshop	LONG HAUL	2
13	Boykin Chemical Workshop	OLDE TYME QUALITY	2
13	Boykin Chemical Workshop	STUTTENFURST	1
13	Boykin Chemical Workshop	VALU-MATTE	1

12. Write a query to display the largest average product price of any brand. (See the figure below for the output)

LARGEST AVERAGE
22.59

13. Write a query to display the brand ID, brand name, brand type, and average price of products for the brand that has the largest average product price (See the figure below for the output)

BRAND_ID	BRAND_NAME	BRAND_TYPE	AVGPRICE
29	BUSTERS	VALUE	22.59

14. Write a query to display the current salary for each employee in department 300. Assume that only current employees are kept in the system, and therefore the most current salary for each employee is the entry in the salary history with a NULL end date. Sort the result in descending order by salary amount. (See the figure below for the output)

Emp_Num	Emp_LName	Emp_FName	Sal_Amount
83746	RANKIN	SEAN	95550
84328	CARPENTER	FERN	94090
83716	RIVERA	HENRY	85920
84432	JAMISON	MERLE	85360
83902	VARGAS	ROCKY	79540
83695	MENDEZ	CARROLL	79200
84500	WESTON	CHRISTINE	78690
84594	TIDWELL	ODELL	77400
83910	AVERY	LAUREN	76110
83359	WATTS	MERLE	72240
83790	ACEVEDO	LAVINA	72000

15. Write a query to display the starting salary for each employee. The starting salary would be the entry in the salary history with the oldest salary start date for each employee. Sort the output by employee number. (See the figure below for the output)

Emp_Num	Emp_LName	Emp_FName	Sal_Amount
83304	MCDONALD	TAMARA	19770
83308	LOVE	CONNIE	11230
83312	BAKER	ROSALBA	39260
83314	DAVID	CHAROLETTE	15150
83318	PECK	DARCIE	22330
83321	FARMER	ANGELINA	18250
83332	LONG	WILLARD	23380
83341	CORTEZ	CHRISTINE	14510
83347	WINN	QUINTIN	17010
83349	SINGH	JENNIFFER	21220
83359	WATTS	MERLE	25370
83366	BLEDSOE	PHOEBE	23200

16. Write a query to display the invoice number, line numbers, product SKUs, product descriptions, and brand ID for sales of sealer and top coat products of the same brand on the same invoice. Sort the results by invoice number in ascending order, first line number in ascending order, and then by second line number in descending order. (See the figure below for the output)

Inv_Num	l.Line_Num	p.Prod_Sku	p.Prod_Descript	l2.Line_Num	p2.Prod_Sku	p2.Prod_Descript	Brand_ID
115	2	5140-RTG	Fire Resistant Sealer, for Exterior Wood (ULC Approved)	1	1203-AIS	Fire Retardant Coating, Latex, Interior, Flat (ULC Approved)	35
118	2	5140-RTG	Fire Resistant Sealer, for Exterior Wood (ULC Approved)	5	5046-TTC	Aluminum Paint, Heat Resistant (Up to 427°C - 800°F)	35
135	5	3036-PCT	Sealer, for Knots	2	1074-VVJ	Light Industrial Coating, Exterior, Water Based ('eggshell-like' - MPI Gloss Level 3)	25
153	2	3701-YAW	Sealer, Solvent Based, for Concrete Floors	1	3955-NWD	Water Repellant, Clear (Not Paintable)	30
222	1	1336-FVM	Alkyd, Sanding Sealer, Clear	3	8199-YRF	Varnish, Exterior, Water Based, (Satin-Like) MPI Gloss Level 4	33
234	4	5728-ZPO	Shop Coat, Quick Dry, for Interior Steel	3	9272-LTP	Varnish, Marine Spar, Exterior, Gloss (MPI Gloss Level 6)	27
234	4	5728-ZPO	Shop Coat, Quick Dry, for Interior Steel	2	9126-PWF	Latex, Recycled (Consolidated), Interior (MPI Gloss Level 3)	27
243	1	4072-SWV	Sealer, Solvent Based, for Concrete Floors	3	5653-RTU	Aluminum Paint	23
267	1	8894-LUR	Lacquer, Sanding Sealer, Clear	5	9838-FUF	Fire Retardant Top-Coat, Clear, Alkyd, Interior (ULC Approved)	27
333	1	3701-YAW	Sealer, Solvent Based, for Concrete Floors	6	2584-CIJ	Stain, for Exterior Wood Decks	30
333	1	3701-YAW	Sealer, Solvent Based, for Concrete Floors	5	4784-SLU	Lacquer, Clear, Flat	30
369	2	1403-TUY	Sealer, Water Based, for Concrete Floors	1	8726-ZNM	Floor Paint, Alkyd, Low Gloss	29

17. The Binder Prime Company wants to recognize the employee who sold the most of its products during a specified period. Write a query to display the employee number, employee first name, employee last name, email address, and total units sold for the employee who sold the most Binder Prime brand products between November 1, 2015, and December 5, 2015. If there is a tie for most units sold, sort the output by employee last name. (See the figure below for the output)

Emp_Num	Emp_FName	Emp_LName	Emp_Email	Total
84134	ROSALIE	GARLAND	G.ROSALI98@LGCOMPANY.COM	23
83850	RUSTY	MILES	M.RUSTY95@LGCOMPANY.COM	23

18. Write a query to display the customer code, first name, and last name of all customers who have had at least one invoice completed by employee 83649 and at least one invoice completed by employee 83677. Sort the output by customer last name and then first name. (See the figure below for the output)

Cust_Code	Cust_FName	Cust_LName
684	WENDI	BEAN
340	MARCIA	BURRIS
211	GERALD	CAUDILL
292	VALARIE	DILLARD
293	CLAIR	ERICKSON
416	TATIANA	HOWE
996	EZRA	LYON
98	VALENTIN	MARINO
121	PETER	SMALL
1157	LUCIO	STALEY
617	CESAR	TALLEY
457	SHAUNA	WERNER
131	SAL	WHALEY

19. LargeCo is planning a new promotion in Alabama (AL) and wants to know about the largest purchases made by customers in that state. Write a query to display the customer code, customer first name, last name, full address, invoice date, and invoice total of the largest purchases made by each customer in Alabama. Be certain to include any customers in Alabama who have never made a purchase; their invoice dates should be NULL and the invoice totals should display as 0. Sort the result by customer last name and then first name. (See the figure below for the output)

Cust_Code	Cust_FName	Cust_LName	Cust_Street	Cust_City	Cust_State	Cust_ZIP	Inv_Date	Largest Invoice
903	ROBIN	ADDISON	323 LORETTA PLACE	Mobile	AL	36693	8/26/2015	230.63
643	NINA	ALLEN	680 RED TALON DRIVE	Robertsdale	AL	36574	6/21/2015	11.99
295	DORTHY	AUSTIN	829 BIG BEND LOOP	Diamond Shamrock	AL	36614	4/24/2015	589.75
393	FOSTER	BERNAL	1299 EAST 3RD AVENUE	Birmingham	AL	35280		0
853	GAYLORD	BOLTON	1069 LUGENE LANE	Montgomery	AL	36131	11/25/2015	372.68
925	ALANA	BOOKER	1874 I STREET	Mccullough	AL	36502	12/12/2015	208.85
1248	LISA	BRADY	491 LOWLAND AVENUE	Daphne	AL	36577	12/5/2015	414.47
538	CHIQUITA	CALDWELL	1501 BRIGGS COURT	Normal	AL	35762	5/26/2015	143.9
89	MONICA	CANTRELL	697 ADAK CIRCLE	Loachapoka	AL	36865	3/31/2015	516.58
1233	NATHALIE	CHURCH	1802 SNOWY OWL CIRCLE	Napier Field	AL	36303	11/24/2015	160.96
304	GERTRUDE	CONNORS	1042 PLEASANT DRIVE	Georgiana	AL	36033	12/29/2015	376.32
1131	CARMA	CORNETT	767 CHISANA WAY	Killen	AL	35645	10/25/2015	265.12
1407	FELICIA	CRUZ	643 TURNAGAIN PARKWAY	Coalburg	AL	35068	1/6/2016	387.93

This is the end of Prac #9 Lab.

You are required to submit (or show your prac tutor) a zipped folder having all SQL queries you composed for this prac (or a WORD document having all SQL queries).
