

SQL Final Project

Part 1: Three Business/Analytical Problems

Business problem #1:

List customernumber, customername, contactlastname, contactfirstname, and phone number for customers located in the state of California (CA). List the results in alphabetical order of customer name and only show the top 5 rows.

Business problem #1 SQL Code:

```
select customernumber, customername, contactlastname, contactfirstname, phone
  from customers
 where state = 'CA'
 order by customername asc limit 5;
```

Business problem #1 Query with Solution in Postgres:

Query

Query History

1

select

customernumber, customername, contactlastname, contactfirstname, phone

2

from

customers

3

where

state = 'CA'

4

order by

customername asc limit 5;

5

6

Data Output

Messages

Notifications

≡+

	customernumber [PK] integer	customername character varying (50)	contactlastname character varying (50)	contactfirstname character varying (50)	phone character varying (50)
1	219	Boards & Toys Co.	Young	Mary	3105552373
2	239	Collectable Mini Designs ...	Thompson	Valarie	7605558146
3	321	Corporate Gift Ideas Co.	Brown	Julie	6505551386
4	347	Men R US Retailers, Ltd.	Chandler	Brian	2155554369
5	124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450

Business problem #2:

List customernumber, checknumber, paymentdate, and amount for the payment with the highest amount. Title the columns as customer, check, date, and amount respectively.

Business problem #2 SQL Code:

```
select customernumber AS Customer, checknumber AS Check, paymentdate AS
Date, amount AS Amount
  from payments
 where amount = (
    select max(amount) from payments);
```

Business problem #2 Solution in Postgres:

Query

Query History

1

```
select customernumber AS Customer, checknumber AS Check, paymentdate AS Date, amount AS Amount
  from payments
  where amount = (
    select max(amount) from payments);
```

2

3

4

5

6

Data Output

Messages

Notifications

	customer integer	check character varying (50)	date date	amount numeric (10,2)
1	141	JE105477	2005-03-18	120166.58

Business problem #3:

For all employees working in the San Francisco office, list EmployeeNumber + LastName (concatenated with a space in between and referred to as employee), jobtitle (referred to as position), reportsto (referred to as supervisor), email, and extension (referred to as ext). The reportsto column cannot have any NULL values. Order the list by ascending employeenumber.

Business problem #3 SQL Code:

```
select concat(employeeid,' ',lastname) AS employee, jobtitle AS
position, reportsto AS supervisor, email, extension AS ext
from employees
where officecode = '1'
and reportsto is not null
order by 1 ASC;
```

Business problem #3 Query with Solution:

Query

Query History

```
1 select concat(employeeenumber, ' ', lastname) AS employee, jobtitle AS position, reportsto AS supervisor, email, extension AS ext
2 from employees
3 where officecode = '1' and reportsto is not null
4 order by 1 ASC;
5
6
```

Data Output

Messages

Notifications

	employee text	position character varying (50)	supervisor integer	email character varying (100)	ext character varying (10)
1	1056 Patterson	VP Sales	1002	mpatterso@classicmodelcars.com	x4611
2	1076 Firrelli	VP Marketing	1002	jfirrelli@classicmodelcars.com	x9273
3	1143 Bow	Sales Manager (NA)	1056	abow@classicmodelcars.com	x5428
4	1165 Jennings	Sales Rep	1143	ljennings@classicmodelcars.com	x3291
5	1166 Thomps...	Sales Rep	1143	lthompson@classicmodelcars.com	x4065