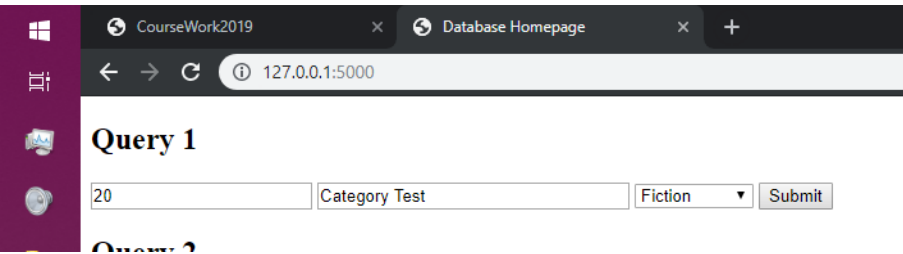


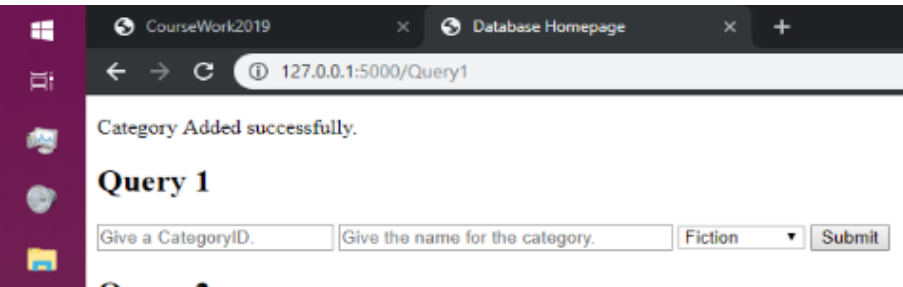
Query 1

Normal use, confirmation and data



Query 1

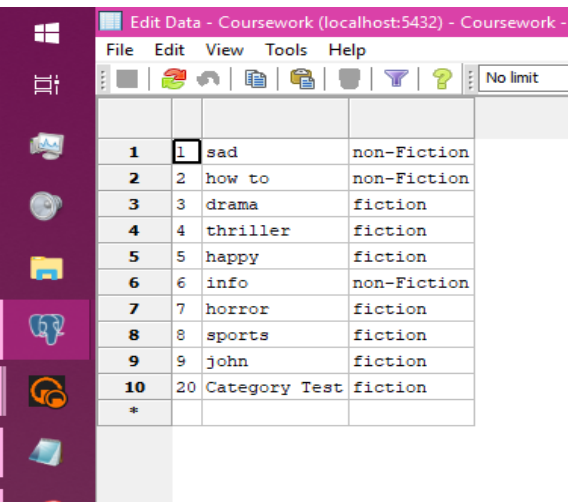
20 Category Test Fiction Submit



Category Added successfully.

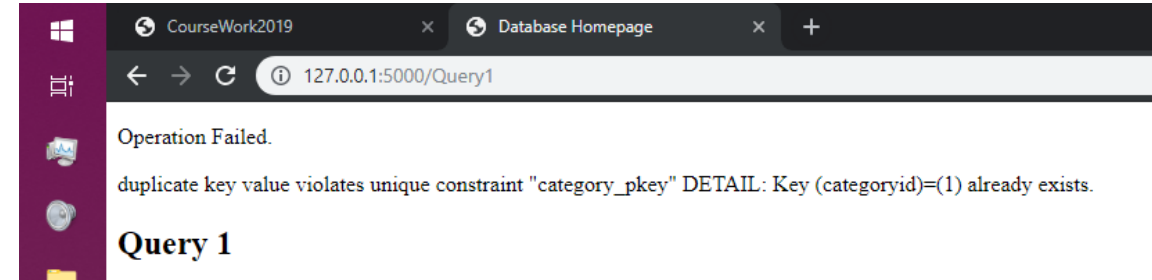
Query 1

Give a CategoryID. Give the name for the category. Fiction Submit



1	1	sad	non-Fiction
2	2	how to	non-Fiction
3	3	drama	fiction
4	4	thriller	fiction
5	5	happy	fiction
6	6	info	non-Fiction
7	7	horror	fiction
8	8	sports	fiction
9	9	john	fiction
10	20	Category Test	fiction
*			

Failure when
CategoryID already
exists

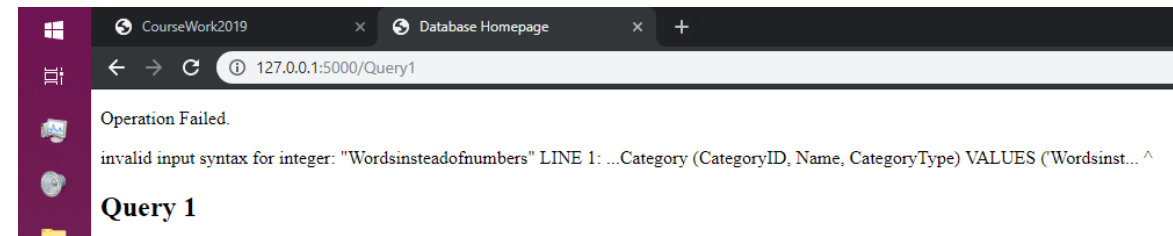


Operation Failed.

duplicate key value violates unique constraint "category_pkey" DETAIL: Key (categoryid)=(1) already exists.

Query 1

Failure when non
integers is used as input



Operation Failed.

invalid input syntax for integer: "Wordsinsteadofnumbers" LINE 1: ...Category (CategoryID, Name, CategoryType) VALUES ('Wordsinst... ^

Query 1

Query 1 PostgreSQL

Before

	categoryid integer	name character varying(50)	categorytype character varying(20)
1	1	sad	non-Fiction
2	2	how to	non-Fiction
3	3	drama	fiction
4	4	thriller	fiction
5	5	happy	fiction
6	6	info	non-Fiction
7	7	horror	fiction
8	8	sports	fiction
9	9	john	fiction

Query

```
Query 1* X
Select * from Category;

INSERT INTO Category (CategoryID, name, CategoryType) VALUES ('20','Test Category','FICTION');

Select * from Category;
```

After

	categoryid integer	name character varying(50)	categorytype character varying(20)
1	1	sad	non-Fiction
2	2	how to	non-Fiction
3	3	drama	fiction
4	4	thriller	fiction
5	5	happy	fiction
6	6	info	non-Fiction
7	7	horror	fiction
8	8	sports	fiction
9	9	john	fiction
10	20	Test Category	fiction

Failure from
already existing
category

```
Select * from Category;

INSERT INTO Category (CategoryID, name, CategoryType) VALUES ('1','CategoryIDchatalreadyexists','FICTION');

Select * from Category;
```

Output pane [Query 1]

Data Output Explain Messages History

ERROR: duplicate key value violates unique constraint "category_pkey"
DETAIL: Key (categoryid)=(1) already exists.
***** Error *****

ERROR: duplicate key value violates unique constraint "category_pkey"
SQL state: 23505
Detail: Key (categoryid)=(1) already exists.

Failure from invalid
category type

```
previous queries
Query 1* X
Select * from Category;

INSERT INTO Category (CategoryID, name, CategoryType) VALUES ('21','Test Category','Not a category type');

Select * from Category;
```

Output pane [Query 1]

Data Output Explain Messages History

ERROR: new row for relation "category" violates check constraint "category_categorytype_check"
DETAIL: Failing row contains (21, Test Category, Not a category type).
***** Error *****

ERROR: new row for relation "category" violates check constraint "category_categorytype_check"
SQL state: 23514
Detail: Failing row contains (21, Test Category, Not a category type).

Failure from invalid
input

```
previous queries
Query 1* X
Select * from Category;

INSERT INTO Category (CategoryID, name, CategoryType) VALUES ('not an integer','Test Category','FICTION');

Select * from Category;
```

Output pane [Query 1]

Data Output Explain Messages History

ERROR: invalid input syntax for integer: "not an integer"
LINE 4: ...Category (CategoryID, name, CategoryType) VALUES ('not an in...
^
***** Error *****

ERROR: invalid input syntax for integer: "not an integer"
SQL state: 22P02
Character: 92

Query 2

Normal use, confirmation,
deletion of data

Give a CategoryID: Give the name for the category: Fiction Submit

Query 2

20 Delete Category

Query 3

CourseWork2019 Database Homepage

127.0.0.1:5000/Query2

Category deleted successfully or never existed.

Query 1

Give a CategoryID. Give the name for the category.

Query 2

Give a CategoryID to delete. Delete Category

Edit Data - Coursework (localhost:5432) - Coursework - public.c

1	1	sad	non-Fiction
2	2	how to	non-Fiction
3	3	drama	fiction
4	4	thriller	fiction
5	5	happy	fiction
6	6	info	non-Fiction
7	7	horror	fiction
8	8	sports	fiction
9	9	john	fiction
*			

Failure when input is not valid

CourseWork2019 Database Homepage

127.0.0.1:5000/Query2

Operation Failed.

invalid input syntax for integer: "wordsinstead" LINE 1: DELETE FROM Category WHERE CategoryID =('wordsinstead') ^

Query 1

Give a CategoryID. Give the name for the category. Fiction Submit

Query 2

Give a CategoryID to delete. Delete Category

Query 2 Postgres

Output pane [Query 1]

	categoryid integer	name character varying(50)	categorytype character varying(20)
1	1	sad	non-Fiction
2	2	how to	non-Fiction
3	3	drama	fiction
4	4	thriller	fiction
5	5	happy	fiction
6	6	info	non-Fiction
7	7	horror	fiction
8	8	sports	fiction
9	9	john	fiction
10	20	Test Category	fiction

Before and after deletion

```
Select * from Category;
```

```
DELETE FROM Category WHERE CategoryID = 20;
```

```
Select * from Category;
```

Output pane [Query 1]

	categoryid integer	name character varying(50)	categorytype character varying(20)
1	1	sad	non-Fiction
2	2	how to	non-Fiction
3	3	drama	fiction
4	4	thriller	fiction
5	5	happy	fiction
6	6	info	non-Fiction
7	7	horror	fiction
8	8	sports	fiction
9	9	john	fiction

No change
when deleting
non existing
category

Query 1*

```
Select * from Category;
```

```
DELETE FROM Category WHERE CategoryID = '20';
```

```
Select * from Category;
```

Output pane [Query 1]

Query returned successfully: 0 rows affected, 12 msec execution time.

Failure from invalid input

Query 1*

```
Select * from Category;
```

```
DELETE FROM Category WHERE CategoryID = 'notanumber';
```

```
Select * from Category;
```

Output pane [Query 1]

ERROR: invalid input syntax for integer: "notanumber"
LINE 4: DELETE FROM Category WHERE CategoryID = 'notanumber';
^

***** Error *****

ERROR: invalid input syntax for integer: "notanumber"
SQL state: 22P02
Character: 70

Query 3

Normal use and result, has
CREATE OR REPLACE so no
issues if view already exists

Give a CategoryID to delete.

Query 3

Query 4

Give a publisher name to report.

CourseWork2019 Database H

127.0.0.1:5000/Query3?

Category Summary

Name	Occurences	Average Price
happy	1	3.99
info	2	37.49
how to	4	100.74
sad	1	3.99
sports	3	0.98
drama	1	3.99
Total		
151.18		

Original queries in Postgresql

Query - Coursework on postgres@localhost:5432 *

File Edit Query Favourites Macros View Help

SQL Editor Graphical Query Builder

Previous queries

Query 1* x

```
CREATE OR REPLACE VIEW CategorySummary
AS SELECT
    Category.Name AS Name,
    COUNT(Category.CategoryID) AS Occurences,
    ROUND(AVG(Price),2) AS AveragePrice
FROM
    Category, Book
WHERE
    Book.CategoryID = Category.CategoryID
GROUP BY
    Category.CategoryID;
SELECT * FROM CategorySummary;
SELECT
    ROUND(SUM(AveragePrice),2)
FROM
    CategorySummary
```

Output pane [Query 1]

Data Output Explain Messages History

	name	occurences	averageprice
	character varying(50)	bigint	numeric
1	happy	1	3.99
2	info	2	37.49
3	how to	4	100.74
4	sad	1	3.99
5	sports	3	0.98
6	drama	1	3.99

Query 4

view category summary

Query 4

Query 5

Back to homePage

Order Summary

BookID	Book Title	Total Orders Per Book	Total Quantity Per Book	Total Price	Total Unit Price	Month	Year
4	Dictionary	1	2	29.98	27.98	03	2019
1	How to not be stupid	1	1	2.99	1.99	03	2019
1	How to not be stupid	1	10	29.90	19.90	02	2017
3	John Cena AND how to find him	1	3	299.97	269.97	02	2017

Input and result

Invalid input has no results
and produces error

View category summary

Query 4

Query 5

Operation Failed.

No results

Query 1

Query 2

Query 3

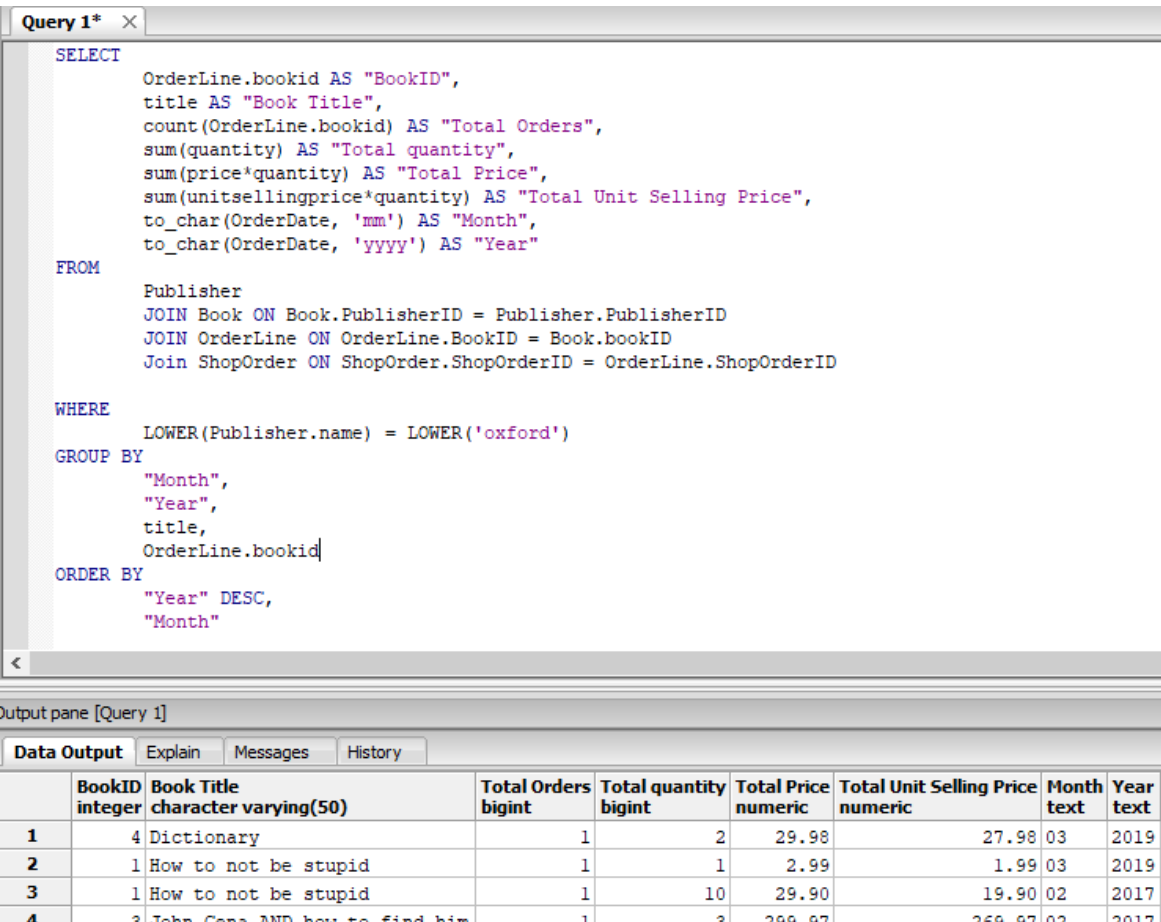
Query 4

Query 5

Query 6

Query 4 Postgres

Normal use, case insensitive input



The screenshot shows a PostgreSQL query editor with a SQL query that filters for the publisher 'Oxford'. The query is as follows:

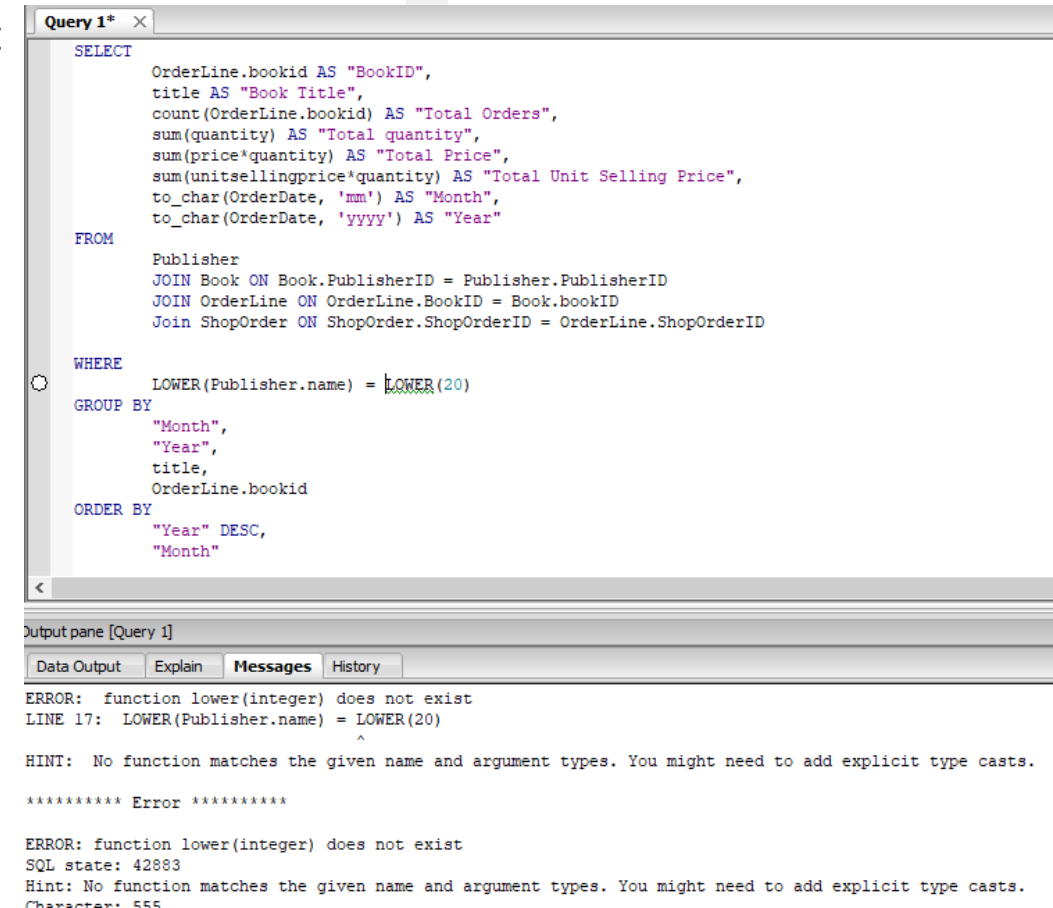
```
SELECT
    OrderLine.bookid AS "BookID",
    title AS "Book Title",
    count(OrderLine.bookid) AS "Total Orders",
    sum(quantity) AS "Total quantity",
    sum(price*quantity) AS "Total Price",
    sum(unitsellingprice*quantity) AS "Total Unit Selling Price",
    to_char(OrderDate, 'mm') AS "Month",
    to_char(OrderDate, 'yyyy') AS "Year"
FROM
    Publisher
JOIN Book ON Book.PublisherID = Publisher.PublisherID
JOIN OrderLine ON OrderLine.BookID = Book.bookID
Join ShopOrder ON ShopOrder.ShopOrderID = OrderLine.ShopOrderID
WHERE
    LOWER(Publisher.name) = LOWER('oxford')
GROUP BY
    "Month",
    "Year",
    title,
    OrderLine.bookid
ORDER BY
    "Year" DESC,
    "Month"
```

The output pane shows the following results:

	BookID integer	Book Title character varying(50)	Total Orders bigint	Total quantity bigint	Total Price numeric	Total Unit Selling Price numeric	Month text	Year text
1	4	Dictionary	1	2	29.98	27.98	03	2019
2	1	How to not be stupid	1	1	2.99	1.99	03	2019
3	1	How to not be stupid	1	10	29.90	19.90	02	2017
4	3	John Cena AND how to find him	1	3	299.97	269.97	02	2017

No result

Failure from invalid
input



The screenshot shows the same SQL query as before, but with an invalid input '20' instead of a string in the WHERE clause. The error message is:

```
ERROR: function lower(integer) does not exist
LINE 17: LOWER(Publisher.name) = LOWER(20)
                                     ^
HINT: No function matches the given name and argument types. You might need to add explicit type casts.

***** Error *****

ERROR: function lower(integer) does not exist
SQL state: 42883
Hint: No function matches the given name and argument types. You might need to add explicit type casts.
Character: 555
```

Query 5

Normal use and result

Query 4

Give a publisher name to report.

Query 5

2

Query 6

dd/mm/yyyy dd/mm/yyyy

Book History

Order Date	Book Title	Price	Unit Selling Price	Total Quantity	Total Selling Value	Shop Name
2017-02-27	Go the f to sleep	3.99	2.99	3	8.97	eBay
2018-03-21	Go the f to sleep	3.99	2.99	1	2.99	Amazon
2019-03-21	Go the f to sleep	3.99	2.99	10	29.90	Amazon
Total Orders	Total Selling Value					
14	41.86					

Returns failure if there is no results

Failure when non integer inputted

Query 5

words

Query 6

dd/mm/yyyy dd/mm/yyyy

Operation Failed.

invalid input syntax for integer: "words" LINE 18: Book BookID = ('words') ^

Query 1

Give a CategoryID. Give the name for the category. Fiction

Query 2

Give a CategoryID to delete.

Query 3

Query 4

Give a publisher name to report.

Query 5

Give a BookID to report.

Query 6

Query 5 Postgres

Query 1*

```
CREATE OR REPLACE VIEW bookHistory
AS SELECT
    OrderDate AS OrderDate,
    Title AS BookTitle,
    Price AS Price,
    UnitSellingPrice AS UnitSellingPrice,
    SUM(Quantity) AS TotalQuantity,
    Quantity*UnitSellingPrice AS TotalSellingValue,
    Shop.Name AS ShopName
FROM
    Shop
JOIN ShopOrder ON ShopOrder.ShopID=Shop.ShopID
JOIN OrderLine ON OrderLine.ShopOrderID=ShopOrder.ShopOrderID
JOIN Book ON Book.BookID=OrderLine.BookID
JOIN Publisher ON Publisher.PublisherID=Book.PublisherID
JOIN SalesRep ON SalesRep.SalesRepID=ShopOrder.SalesRepID
WHERE
    Book.BookID = 2
GROUP BY
    ShopOrder.OrderDate,
    Book.Title,
    Book.Price,
    OrderLine.UnitSellingPrice,
    OrderLine.Quantity,
    Shop.Name
ORDER BY
    OrderDate;

SELECT * FROM bookHistory;
```

Output pane [Query 1]

	orderdate date	booktitle character varying(50)	price numeric(10,2)	unitsellingprice numeric(10,2)	totalquantity bigint	totalsellingvalue numeric	shopname character varying(50)
1	2017-02-27	Go the f to sleep	3.99	2.99	3	8.97	eBay
2	2018-03-21	Go the f to sleep	3.99	2.99	1	2.99	Amazon
3	2019-03-21	Go the f to sleep	3.99	2.99	10	29.90	Amazon

```
Shop.Name
ORDER BY
    OrderDate;

SELECT * FROM bookHistory;

SELECT
    SUM(TotalSellingValue) AS CompleteTotalValue,
    SUM(TotalQuantity) AS CompleteTotalQuantity
FROM
    bookHistory;
```

Output pane [Query 1]

	completetotalvalue numeric	completetotalquantity numeric
1	41.86	14

Both queries

Failure from invalid
input

Query 1*

```
CREATE OR REPLACE VIEW bookHistory
AS SELECT
    OrderDate AS OrderDate,
    Title AS BookTitle,
    Price AS Price,
    UnitSellingPrice AS UnitSellingPrice,
    SUM(Quantity) AS TotalQuantity,
    Quantity*UnitSellingPrice AS TotalSellingValue,
    Shop.Name AS ShopName
FROM
    Shop
JOIN ShopOrder ON ShopOrder.ShopID=Shop.ShopID
JOIN OrderLine ON OrderLine.ShopOrderID=ShopOrder.ShopOrderID
JOIN Book ON Book.BookID=OrderLine.BookID
JOIN Publisher ON Publisher.PublisherID=Book.PublisherID
JOIN SalesRep ON SalesRep.SalesRepID=ShopOrder.SalesRepID
WHERE
    Book.BookID = 'notanumber';
GROUP BY
    ShopOrder.OrderDate,
    Book.Title,
    Book.Price,
    OrderLine.UnitSellingPrice,
    OrderLine.Quantity,
    Shop.Name
ORDER BY
    OrderDate;

SELECT
    SUM(TotalSellingValue) AS CompleteTotalValue,
    SUM(TotalQuantity) AS CompleteTotalQuantity
FROM
    bookHistory;
```

Output pane [Query 1]

ERROR: invalid input syntax for integer: "notanumber"
LINE 18: Book.BookID = 'notanumber'
^
***** Error *****

ERROR: invalid input syntax for integer: "notanumber"
SQL state: 22P02
Character: 573

Returns nothing when
there is no existing book

```
CREATE OR REPLACE VIEW bookHistory;
AS SELECT
    OrderDate AS OrderDate,
    Title AS BookTitle,
    Price AS Price,
    UnitSellingPrice AS UnitSellingPrice,
    SUM(Quantity) AS TotalQuantity,
    Quantity*UnitSellingPrice AS TotalSellingValue,
    Shop.Name AS ShopName
FROM
    Shop
JOIN ShopOrder ON ShopOrder.ShopID=Shop.ShopID
JOIN OrderLine ON OrderLine.ShopOrderID=ShopOrder.ShopOrderID
JOIN Book ON Book.BookID=OrderLine.BookID
JOIN Publisher ON Publisher.PublisherID=Book.PublisherID
JOIN SalesRep ON SalesRep.SalesRepID=ShopOrder.SalesRepID
WHERE
    Book.BookID = 0;
GROUP BY
    ShopOrder.OrderDate,
    Book.Title,
    Book.Price,
    OrderLine.UnitSellingPrice,
    OrderLine.Quantity,
    Shop.Name
ORDER BY
    OrderDate;

SELECT * FROM bookHistory;

SELECT
    SUM(TotalSellingValue) AS CompleteTotalValue,
    SUM(TotalQuantity) AS CompleteTotalQuantity
FROM
    bookHistory;
```

Output pane [Query 1]

	orderdate date	booktitle character varying(50)	price numeric(10,2)	unitsellingprice numeric(10,2)	totalquantity bigint	totalsellingvalue numeric	shopname character varying(50)
--	-------------------	------------------------------------	------------------------	-----------------------------------	-------------------------	------------------------------	-----------------------------------

Query 6

Regular use and results

Give a BookID to report.

Query 6

Query 7

Book History

Sales Rep ID	Sales Rep Name	Quantity	Value
3	John	16	298.84
2	Prottush	11	9.78
7	Mark	1	2.99
5	Bob	3	2.61
1	Nigel	0	0
4	Sarah	0	0
8	Susy	0	0
6	Geoff	0	0

Query in Postgresql

```
Query 1* x
SELECT
  table2.salesrepID,
  table2.salesrep,
  COALESCE(table1.totalquantity,0) AS TotalQuantity,
  COALESCE(table1.totalordervalue,0) AS TotalOrderValue
FROM
  (SELECT
    SalesRep.SalesRepID,
    COALESCE(SUM(OrderLine.Quantity),0) AS TotalQuantity,
    COALESCE(SUM(OrderLine.UnitSellingPrice*OrderLine.Quantity),0) AS TotalOrderValue
  FROM
    SalesRep
  JOIN ShopOrder ON ShopOrder.SalesRepID=SalesRep.SalesRepID
  JOIN OrderLine ON OrderLine.ShopOrderID=ShopOrder.ShopOrderID
  WHERE
    ShopOrder.OrderDate BETWEEN '2014-4-1' AND '2018-1-1'
  GROUP BY
    SalesRep.SalesRepID
  ORDER BY
    COALESCE(SUM(OrderLine.UnitSellingPrice),0) DESC) table1
RIGHT JOIN
  (SELECT
    SalesRepID,
    name AS salesrep
  FROM salesrep) table2 ON table1.salesrepid=table2.salesrepid
GROUP BY
  table2.salesrepid,
  table2.salesrep,
  table1.totalquantity,
  table1.totalordervalue
ORDER BY
  COALESCE(sum(table1.totalOrderValue),0) DESC;
```

Output pane [Query 1]

	salesrepid integer	salesrep character varying(50)	totalquantity bigint	totalordervalue numeric
1	3	John	16	298.84
2	2	Prottush	11	9.78
3	7	Mark	1	2.99
4	5	Bob	3	2.61
5	1	Nigel	0	0
6	4	Sarah	0	0
7	8	Susy	0	0
8	6	Geoff	0	0

Invalid input returns
empty results

Give a BookID to report.

Query 6

Query 7

Book History

Sales Rep ID	Sales Rep Name	Quantity	Value
6	Geoff	0	0
5	Bob	0	0
2	Prottush	0	0
4	Sarah	0	0
8	Susy	0	0
7	Mark	0	0
3	John	0	0
1	Nigel	0	0

Query 6 Postgres

```
Query 1* x
SELECT
table2.salesrepID,
table2.salesrep,
COALESCE(table1.totalquantity,0) AS TotalQuantity,
COALESCE(table1.totalordervalue,0) AS TotalOrderValue
FROM
(SELECT
SalesRep.SalesRepID,
COALESCE(SUM(OrderLine.Quantity),0) AS TotalQuantity,
COALESCE(SUM(OrderLine.UnitSellingPrice*OrderLine.Quantity),0) AS TotalOrderValue
FROM
SalesRep
JOIN ShopOrder ON ShopOrder.SalesRepID=SalesRep.SalesRepID
JOIN OrderLine ON OrderLine.ShopOrderID=ShopOrder.ShopOrderID
WHERE
ShopOrder.OrderDate BETWEEN '2014-4-1' AND '2018-1-1'
GROUP BY
SalesRep.SalesRepID
ORDER BY
COALESCE(SUM(OrderLine.UnitSellingPrice),0) DESC) table1
RIGHT JOIN
(SELECT
SalesRepID,
name AS salesrep
FROM salesrep)table2 ON table1.salesrepid=table2.salesrepid
GROUP BY
table2.salesrepid,
table2.salesrep,
table1.totalquantity,
table1.totalordervalue
ORDER BY
COALESCE(sum(table1.totalOrderValue),0)DESC;
```

	salesrepid integer	salesrep character varying(50)	totalquantity bigint	totalordervalue numeric
1	3	John	16	298.84
2	2	Prottush	11	9.78
3	7	Mark	1	2.99
4	5	Bob	3	2.61
5	1	Nigel	0	0
6	4	Sarah	0	0
7	8	Susy	0	0
8	6	Geoff	0	0

```
SELECT
table2.salesrepID,
table2.salesrep,
COALESCE(table1.totalquantity,0) AS TotalQuantity,
COALESCE(table1.totalordervalue,0) AS TotalOrderValue
FROM
(SELECT
SalesRep.SalesRepID,
COALESCE(SUM(OrderLine.Quantity),0) AS TotalQuantity,
COALESCE(SUM(OrderLine.UnitSellingPrice*OrderLine.Quantity),0) AS TotalOrderValue
FROM
SalesRep
JOIN ShopOrder ON ShopOrder.SalesRepID=SalesRep.SalesRepID
JOIN OrderLine ON OrderLine.ShopOrderID=ShopOrder.ShopOrderID
WHERE
ShopOrder.OrderDate BETWEEN '1-1-2014' AND '2018-1-1'
GROUP BY
SalesRep.SalesRepID
ORDER BY
COALESCE(SUM(OrderLine.UnitSellingPrice),0) DESC) table1
RIGHT JOIN
(SELECT
SalesRepID,
name AS salesrep
FROM salesrep)table2 ON table1.salesrepid=table2.salesrepid
GROUP BY
table2.salesrepid,
table2.salesrep,
table1.totalquantity,
table1.totalordervalue
ORDER BY
COALESCE(sum(table1.totalOrderValue),0)DESC;
```

	salesrepid integer	salesrep character varying(50)	totalquantity bigint	totalordervalue numeric
1	2	Prottush	17	762.67
2	8	Susy	12	505.88
3	3	John	16	298.84
4	7	Mark	1	2.99
5	5	Bob	3	2.61
6	1	Nigel	0	0
7	4	Sarah	0	0
8	6	Geoff	0	0

Returns nothing
from invalid
range

Failure from
invalid input

```
Query 1* x
SELECT
table2.salesrepID,
table2.salesrep,
COALESCE(table1.totalquantity,0) AS TotalQuantity,
COALESCE(table1.totalordervalue,0) AS TotalOrderValue
FROM
(SELECT
SalesRep.SalesRepID,
COALESCE(SUM(OrderLine.Quantity),0) AS TotalQuantity,
COALESCE(SUM(OrderLine.UnitSellingPrice*OrderLine.Quantity),0) AS TotalOrderValue
FROM
SalesRep
JOIN ShopOrder ON ShopOrder.SalesRepID=SalesRep.SalesRepID
JOIN OrderLine ON OrderLine.ShopOrderID=ShopOrder.ShopOrderID
WHERE
ShopOrder.OrderDate BETWEEN '2019-1-1' AND '2015-1-1'
GROUP BY
SalesRep.SalesRepID
ORDER BY
COALESCE(SUM(OrderLine.UnitSellingPrice),0) DESC) table1
RIGHT JOIN
(SELECT
SalesRepID,
name AS salesrep
FROM salesrep)table2 ON table1.salesrepid=table2.salesrepid
GROUP BY
table2.salesrepid,
table2.salesrep,
table1.totalquantity,
table1.totalordervalue
ORDER BY
COALESCE(sum(table1.totalOrderValue),0)DESC;
```

	salesrepid integer	salesrep character varying(50)	totalquantity bigint	totalordervalue numeric
1	6	Geoff	0	0
2	5	Bob	0	0
3	2	Prottush	0	0
4	4	Sarah	0	0
5	8	Susy	0	0
6	7	Mark	0	0
7	3	John	0	0
8	1	Nigel	0	0

```
SELECT
table2.salesrepID,
table2.salesrep,
COALESCE(table1.totalquantity,0) AS TotalQuantity,
COALESCE(table1.totalordervalue,0) AS TotalOrderValue
FROM
(SELECT
SalesRep.SalesRepID,
COALESCE(SUM(OrderLine.Quantity),0) AS TotalQuantity,
COALESCE(SUM(OrderLine.UnitSellingPrice*OrderLine.Quantity),0) AS TotalOrderValue
FROM
SalesRep
JOIN ShopOrder ON ShopOrder.SalesRepID=SalesRep.SalesRepID
JOIN OrderLine ON OrderLine.ShopOrderID=ShopOrder.ShopOrderID
WHERE
ShopOrder.OrderDate BETWEEN '1-1-2014' AND '2019-1-1'
GROUP BY
SalesRep.SalesRepID
ORDER BY
COALESCE(SUM(OrderLine.UnitSellingPrice),0) DESC) table1
RIGHT JOIN
(SELECT
SalesRepID,
name AS salesrep
FROM salesrep)table2 ON table1.salesrepid=table2.salesrepid
GROUP BY
table2.salesrepid,
table2.salesrep,
table1.totalquantity,
table1.totalordervalue
ORDER BY
COALESCE(sum(table1.totalOrderValue),0)DESC;
```

```
put pane [Query 1]
Data Output Explain Messages History
ERROR: invalid input syntax for type date: "1"
NE 16: ShopOrder.OrderDate BETWEEN '1-1' AND '2019-1-1'
***** Error *****
ERROR: invalid input syntax for type date: "1"
PL state: 22007
character: 527
```

Query functions with
different date
formats

Query 7

Query 7

Regular use

Output pane [Query 1]

	bookid integer	title character varying(50)	price numeric(10,2)	categoryid integer	publisher integer
1	1	How to not be stupid	2.99	2	
2	2	Go the f to sleep	3.99	3	
3	3	John Cena AND how to find him	99.99	2	
4	4	Dictionary	14.99	6	
5	5	FOOTBALL	0.98	8	
6	6	RUGBY	0.99	8	
7	7	NETBALL	0.97	8	
8	8	Being happy	3.99	5	
9	9	Being sad	3.99	1	
10	10	Encyclopedia	59.99	6	
11	11	A guide to eating by Pearson	149.99	2	
12	12	A guide to complimenting people by Pearson	149.99	2	

Data before

Failure when integer not given

Operation successful.

Confirmation

Query 1

Output pane [Query 1]

	bookid integer	title character varying(50)	price numeric(10,2)	categoryid integer	publisherid integer
1	1	How to not be stupid	2.99	2	3
2	2	Go the f to sleep	3.99	3	1
3	3	John Cena AND how to find him	99.99	2	3
4	5	FOOTBALL	0.98	8	5
5	6	RUGBY	0.99	8	5
6	7	NETBALL	0.97	8	5
7	8	Being happy	3.99	5	8
8	9	Being sad	3.99	1	8
9	11	A guide to eating by Pearson	149.99	2	4
10	12	A guide to complimenting people by Pearson	149.99	2	4
11	4	Dictionary	7.50	6	3
12	10	Encyclopedia	30.00	6	2

Data after

Only accepts numbers from 1-100, no decimals.

CourseWork2019 Database Homepage

127.0.0.1:5000/Query7

Operation Failed.

invalid input syntax for integer: "words" LINE 7: CategoryID = ('words'); ^

Query 1

dd/mm/yyyy dd/mm/yyyy

Query 7

123 1233

Value must be less than or equal to 100.

