

Exercise 1

Part 1:

1. SELECT * FROM customers;
2. SELECT * FROM teams;
3. SELECT * FROM items;

Part 2:

1. SELECT first_name, last_name, email, phone_number
FROM customers;
2. SELECT name, number_of_players
FROM teams;
3. SELECT name, description, category
FROM items;

Exercise 2

Part 1:

1. SELECT first_name, last_name, current_balance, current_balance/12
FROM customers;
2. SELECT first_name, last_name, ctr_number, current_balance,
current_balance - 5 FROM customers;
3. current_balance cannot be 0 as 'current_balance - 5' would
become negative which is illogical.

Part 2:

1. SELECT first_name "First Name", last_name "Last Name", current_balance "Balance",
current_balance/12 "Monthly Repayments" FROM customers;

Part 3:

1. SELECT 'The ' || name || ' team has ' || number_of_players || ' players'
' and receive a discount of ' || discount || ' percent.'
"Team Information" FROM teams;
2. As value of discount is null, doesn't equal to zero

Exercise 3

Part 1:

1. SELECT * FROM customers
where ctr_number = 'C01986';
2. SELECT first_name "First Name", last_name
"Last Name", ctr_number "Customer Number"
FROM customers where current_balance > 100;
3. SELECT id "Order ID", odr_date "Order Date",
to_char(odr_time, 'hh24:mi:ss') "Order Time"
FROM orders where odr_date < '28-May-2019';

PART 2:

1. SELECT id "Inventory ID", cost "cost", units "Number of Units"
FROM inventory-list where cost between 3.00 and 15.00;

PART 3:

1. SELECT id "Inventory ID", cost "cost", units "Number of Units"
FROM inventory-list where units in (50, 100, 150, 200);

PART 4:

1. SELECT id "Inventory ID", cost "cost",
units "Number of Units" FROM inventory-list
where units not in (50, 100, 150, 200);

PART 5:

1. SELECT itm_number "Item Number", name
"Item Name" FROM items where name like
'g%'

PART 6 :

1. SELECT item_number "Item Number", name
"Item Name" FROM items where name like
'% o %' ;

Exercise 4

PART 1 :

1. SELECT 'The ' || name || ' team has ' || number_of_players || ' players and does not receive a discount.' "Team Information" FROM teams where discount is null;

2. SELECT 'The ' || name || ' team has ' || number_of_players || ' players and receives a discount.' "Team Information" FROM teams where discount is not null;

PART 2 :

1. SELECT customer_number "Customer Number", address_line_1 "Street Address", zip_code "Postal Code" FROM customers_addresses where address_line_2 = 'Stardford' and city = 'Liverpool';

PART 3 :

1. SELECT ctr_number "Customer Number", address_line_1
"Street Address", zip_code "Postal Code" FROM
customers_addresses where address_line_2 = 'Starford'
or city = 'Liverpool';

PART 4 :

1. SELECT ctr_number "Customer Number", address_line_1
"Street Address", zip_code "Postal Code" FROM
customers_addresses where city not in ('Liverpool')

Exercise 5

PART 1 :

1. SELECT name "Team Name", number_of_players
"Number of Players" from teams order by name;

2. SELECT name "Team Name", number_of_players
"Number of Players" from teams order by
number_of_player desc;

3. SELECT name "Team Name", number_of_players
"Number of Players" from teams order by
name desc;

Exercise 6

PART 1 :

1. SELECT rownum "Customer Number", first_name || ' ' ||
last_name "Customer Name" FROM customers where
rownum <= 3;

PART 2

1. SELECT first_name "First Name", last_name
"Last Name", commission_rate "Commission Rate"
FROM sales_representatives where commission_rate
= : rate_of_commission order by last_name;

Exercise 1:

PART 1

1.

A screenshot of MySQL Workbench showing the results of a SQL query. The query is: `SELECT * FROM customers;`. The results are displayed in a table titled "Query Result". The table has 11 columns: CTR_NUMBER, EMAIL, FIRST_NAME, LAST_NAME, PHONE_NUMBER, CURRENT_BALANCE, SRE_ID, T001, T002, T003, and LOYALTY_CARD_NUMBER. There are 6 rows of data.

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	T001	T002	T003	LOYALTY_CARD_NUMBER
1 c0001	bob.thornberry@heatmail.com	Robert	Thornberry	01234567898	150	sr01	t001	(null)		
2 c00012	Jjones@freemail.com	Jennifer	Jones	01505214598	0	(null)	(null)	lc1015		
3 c00101	unknown@here.com	John	Doe	03216547808	987.5	sr01	t002	(null)		
4 c00103	MurciaA@globaltech.com	Andrew	Murcia	07715246890	85	(null)	(null)	lc2341		
5 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)		
6 C02001	brianrog@hootech.com	Brian	Rogers	01654564898	50	(null)	(null)	lc4587		

2.

A screenshot of MySQL Workbench showing the results of a SQL query. The query is: `SELECT * FROM teams;`. The results are displayed in a table titled "Query Result". The table has 4 columns: ID, NAME, NUMBER_OF_PLAYERS, and DISCOUNT. There are 4 rows of data.

ID	NAME	NUMBER_OF_PLAYERS	DISCOUNT
1 t001	Rockets	25	10
2 t002	Celtics	42	20
3 t003	Rovers	8	(null)
4 t004	Jets	10	5

3.

A screenshot of MySQL Workbench showing the results of a SQL query. The query is: `SELECT * FROM items;`. The results are displayed in a table titled "Query Result". The table has 8 columns: ITM_NUMBER, NAME, DESCRIPTION, CATEGORY, COLOR, Size, and ILT_ID. There are 5 rows of data.

ITM_NUMBER	NAME	DESCRIPTION	CATEGORY	COLOR	Size	ILT_ID
1 im01101044	gloves	catcher mitt	clothing	brown	m	i1010230124
2 im01101045	under shirt	top worn under the game top	clothing	white	s	i1010230125
3 im01101046	socks	team socks with emblem	clothing	range	l	i1010230126
4 im01101047	game top	team shirt with emblem	clothing	range	m	i1010230127
5 im01101048	premium bat	high quality baseball bat	equipment	(null)	(null)	i1010230128

PART 2

1.

```
SELECT first_name, last_name, email, phone_number FROM customers;
```

	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER
1	Robert	Thornberry	bob.thornberry@heatmail.com	01234567898
2	Jennifer	Jones	Jjones@freemail.com	01505214598
3	John	Doe	unknown@here.com	03216547808
4	Andrew	Murcia	MurciaA@globaltech.com	07715246890
5	Maria	Galant	margala87@delphiview.com	01442736589
6	Brian	Rogers	brianrog@hootech.com	01654564898

2.

```
SELECT name, number_of_players FROM teams;
```

	NAME	NUMBER_OF_PLAYERS
1	Rockets	25
2	Celtics	42
3	Rovers	8
4	Jets	10

3.

```
SELECT name, description, category FROM items;
```

	NAME	DESCRIPTION	CATEGORY
1	gloves	catcher mitt	clothing
2	under shirt	top worn under the game top	clothing
3	socks	team socks with emblem	clothing
4	game top	team shirt with emblem	clothing
5	premium bat	high quality baseball bat	equipment

Exercise 2:

PART 1

1.

```
SELECT first_name, last_name, current_balance, current_balance/12 FROM customers;
```

2.

```
SELECT first_name, last_name, ctr_number, current_balance, current_balance-5 FROM customers;
```

Query Result x

SQL | All Rows Fetched: 6 in 0.006 seconds

	FIRST_NAME	LAST_NAME	CTR_NUMBER	CURRENT_BALANCE	CURRENT_BALANCE-5
1	Robert	Thornberry	c00001	150	145
2	Jennifer	Jones	c00012	0	-5
3	John	Doe	c00101	987.5	982.5
4	Andrew	Murcia	c00103	85	80
5	Maria	Galant	c01986	125.65	120.65
6	Brian	Rogers	c02001	50	45

PART 2

1.

```
SELECT first_name "First Name", last_name "Last Name", current_balance "Balance", current_balance/12 "Monthly Repayments" FROM customers;
```

PART 3

1.

```
SELECT 'The '|| name ||' team has '|| number_of_players ||' players and receive a discount of '|| discount ||' percent.' "Team Information" FROM teams;
```

Query Result | All Rows Fetched: 4 in 0.046 seconds

Team Information
1 The Rockets team has 25 players and receive a discount of 10 percent.
2 The Celtics team has 42 players and receive a discount of 20 percent.
3 The Rovers team has 8 players and receive a discount of percent.
4 The Jets team has 10 players and receive a discount of 5 percent.

Exercise 3:

PART 1

1.

```
SELECT * FROM customers
where ctr_number='c01986';
```

Query Result | All Rows Fetched: 1 in 0.006 seconds

CTR_NUMBER	EMAIL	FIRST_NAME	LAST_NAME	PHONE_NUMBER	CURRENT_BALANCE	SRE_ID	TEM_ID	LOYALTY_CARD_NUMBER
1 c01986	margal87@delphiview.com	Maria	Galant	01442736589	125.65	sr03	t003	(null)

2.

```
SELECT first_name "First Name", last_name "Last Name", ctr_number "Customer Number" FROM customers where current_balance>100;
```

Query Result | All Rows Fetched: 3 in 0.006 seconds

First Name	Last Name	Customer Number
1 Robert	Thornberry	c00001
2 John	Doe	c00101
3 Maria	Galant	c01986

3.

```
SELECT id "Order ID", odr_date "Order Date", to_char(odr_time, 'hh24:mi:ss') "Order Time" FROM orders where odr_date<'28-May-2019';
```

Query Result | All Rows Fetched: 5 in 0.006 seconds

Order ID	Order Date	Order Time
1 or0101250	17/04/2017	08:32:30
2 or0101350	24/05/2017	10:30:35
3 or0101425	28/05/2017	12:30:00
4 or0101681	02/06/2017	14:55:30
5 or0101750	18/06/2017	09:05:00

PART 2

1.

```
SELECT id "Inventory ID", cost "cost", units "Number of Units" FROM inventory_list where cost between 3.00 and 15.00;
```

Query Result | All Rows Fetched: 2 in 0.008 seconds

Inventory ID	cost	Number of Units
1 il010230125	7.99	250
2 il010230126	5.24	87

PART 3

1.

```
| SELECT id "Inventory ID", cost "cost", units "Number of Units" FROM inventory_list where units in (50,100,150,200);
```

Query Result | All Rows Fetched: 1 in 0.005 seconds

Inventory ID	cost	Number of Units
1 il010230124	2.5	100

PART 4

1.

```
| SELECT id "Inventory ID", cost "cost", units "Number of Units" FROM inventory_list where units not in (50,100,150,200);
```

Query Result | All Rows Fetched: 4 in 0.004 seconds

Inventory ID	cost	Number of Units
1 il010230125	7.99	250
2 il010230126	5.24	87
3 il010230127	18.95	65
4 il010230128	97.46	8

PART 5

1.

```
| SELECT itm_number "Item Number", name "Item Name" FROM items where name like 'g%';
```

Query Result | All Rows Fetched: 2 in 0.004 seconds

Item Number	Item Name
1 im01101044	gloves
2 im01101047	game top

PART 6

1.

```
| SELECT itm_number "Item Number", name "Item Name" FROM items where name like '%o%';
```

Query Result | All Rows Fetched: 3 in 0.004 seconds

Item Number	Item Name
1 im01101044	gloves
2 im01101046	socks
3 im01101047	game top

Exercise 4:

PART 1

1.

```
SELECT 'The ''' || name ||' team has '|| number_of_players ||' players and does not receive a discount.' "Team information" FROM teams where discount is null;
SELECT 'The ''' || name ||' team has '|| number_of_players ||' players and receives a discount.' "Team information" FROM teams where discount is not null;
```

Query Result x
SQL | All Rows Fetched: 1 in 0.005 seconds
Team information
1 The Rovers team has 8 players and does not receive a discount.

2.

```
SELECT 'The ''' || name ||' team has '|| number_of_players ||' players and receives a discount.' "Team information" FROM teams where discount is not null;
```

Query Result x
SQL | All Rows Fetched: 3 in 0.043 seconds
Team information
1 The Rockets team has 25 players and receives a discount.
2 The Celtics team has 42 players and receives a discount.
3 The Jets team has 10 players and receives a discount.

PART 2

1.

```
SELECT ctr_number "Customer Number", address_line_1 "Street Address", zip_code "Postal Code" FROM customers_addresses where address_line_2 ='Starford' and city='Liverpool';
```

Query Result x
SQL | All Rows Fetched: 1 in 0.03 seconds
Customer Number | Street Address | Postal Code
1 c00001 | 17 Gartsgquare Road | LP89JHK

PART 3

1.

```
SELECT ctr_number "Customer Number", address_line_1 "Street Address", zip_code "Postal Code" FROM customers_addresses where address_line_2 = 'Starford' or city='Liverpool';
```

Query Result x
SQL | All Rows Fetched: 2 in 0.007 seconds
Customer Number | Street Address | Postal Code
1 c00001 | 17 Gartsgquare Road | LP89JHK
2 c00001 | 63 Acacia Drive | LP83JHR

PART 4

1.

```
SELECT ctr_number "Customer Number", address_line_1 "Street Address", zip_code "Postal Code" FROM customers_addresses where city not in ('Liverpool');
```

Query Result x
SQL | All Rows Fetched: 2 in 0.005 seconds
Customer Number | Street Address | Postal Code
1 c00101 | 54 Ropehill Crescent | ST45AGV
2 c01986 | 36 Watercress Lane | JP23YTH

Exercise 5:

PART 1

1.

```
| SELECT name "Team Name", number_of_players "Number of Players" FROM teams order by name;
```

Query Result x

SQL | All Rows Fetched: 4 in 0.006 seconds

Team Name	Number of Players
1 Celtics	42
2 Jets	10
3 Rockets	25
4 Rovers	8

2.

```
| SELECT name "Team Name", number_of_players "Number of Players" FROM teams order by number_of_players desc;
```

Query Result x

SQL | All Rows Fetched: 4 in 0.041 seconds

Team Name	Number of Players
1 Celtics	42
2 Rockets	25
3 Jets	10
4 Rovers	8

3.

```
| SELECT name "Team Name", number_of_players "Number of Players" FROM teams order by name desc;
```

Query Result x

SQL | All Rows Fetched: 4 in 0.04 seconds

Team Name	Number of Players
1 Rovers	8
2 Rockets	25
3 Jets	10
4 Celtics	42

Exercise 6:

PART 1

1.

```
| SELECT rownum "Customer Number", first_name || ' ' || last_name "Customer Name" FROM customers where rownum<=3;
```

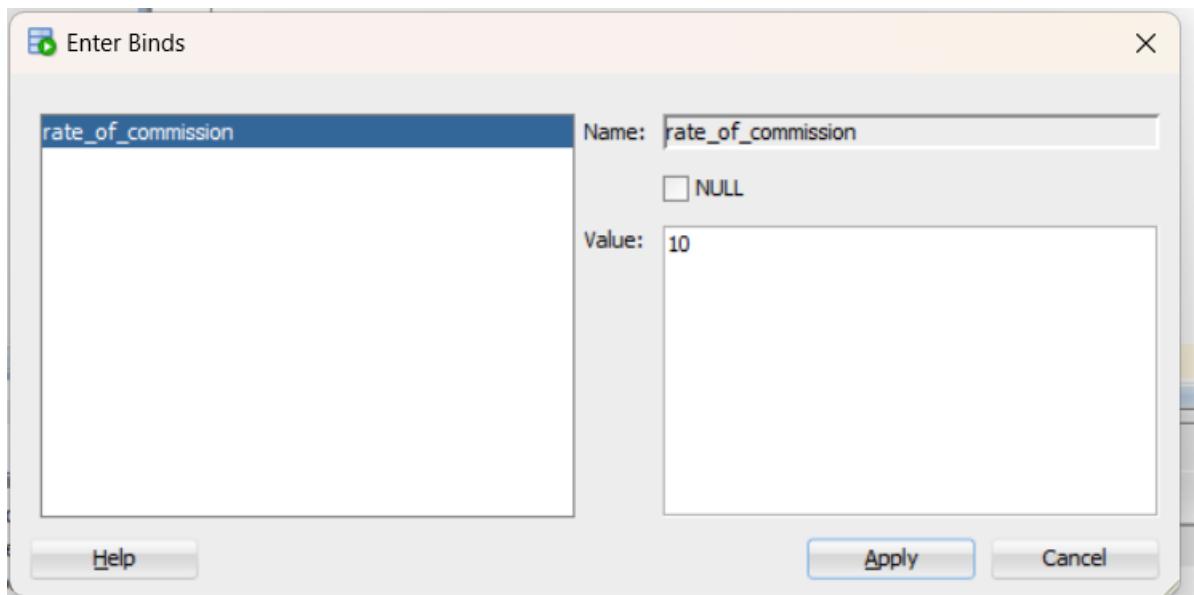
Query Result x

SQL | All Rows Fetched: 3 in 0.042 seconds

Customer Number	Customer Name
1	1 Robert Thornberry
2	2 Jennifer Jones
3	3 John Doe

PART 2

1.



```
SELECT first_name "First Name", last_name "Last Name", commission_rate "Commission Rate" FROM sales_representatives WHERE commission_rate=:rate_of_commission ORDER BY last_name;
```

Query Result X

All Rows Fetched: 1 in 0.002 seconds

FirstName	LastName	Commission Rate
Charles	Raymond	10

The screenshot shows the results of a SQL query. The query selects first name, last name, and commission rate from the sales_representatives table where commission rate is equal to the bind 'rate_of_commission'. The result table has three columns: FirstName, LastName, and Commission Rate. One row is fetched, showing Charles Raymond with a commission rate of 10.