DATABASE MANAGMENT SYSTEM

AHMED AMRO ABDELMONEIM KANDIL

4211133

A3

Examples

Ex-1

```sql
1  SELECT *
2  FROM customers
3  WHERE Creditlimit > 100000
4  ORDER BY contactFirstName
```

▶ Execute   ✎ Clear   🪄 Beautify   ⤢ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
276	Anna's Decorations, Ltd	O'Hara	Anna	02 9936 8555
141	Euro+ Shopping Channel	Freyre	Diego	(91) 555 94 44
363	Online Diecast Creations Co.	Young	Dorothy	6035558647

Ex-2

```sql
1  SELECT
2      customerNumber,
3      customerName,
4      phone,
5      creditLimit,
6      creditLimit + 20
7  FROM customers;
```

▶ Execute   ✐ Clear   ✨ Beautify   ⤢ Minify

RESULT

customerNumber	customerName	phone	creditLimit	creditLimi
103	Atelier graphique	40.32.2555	21000.00	21020.00
112	Signal Gift Stores	7025551838	71800.00	71820.00
114	Australian Collectors, Co.	03 9520 4555	117300.00	117320.00

Ex-3

```sql
1  SELECT
2      customerNumber,
3      customerName,
4      phone,
5      creditLimit,
6      creditLimit + 20 AS newCreditLimit
7  FROM customers;
```

▶ Execute   ✐ Clear   ✏ Beautify   ✴ Minify

RESULT

customerNumber	customerName	phone	creditLimit	newCreditL
103	Atelier graphique	40.32.2555	21000.00	21020.00
112	Signal Gift Stores	7025551838	71800.00	71820.00
114	Australian Collectors, Co.	03 9520 4555	117300.00	117320.00

Ex-4
A

SQL QUERY

```sql
1  SELECT country
2  FROM customers;
```

▶ Execute   ✎ Clear   ✎ Beautify   ✖ Minify

RESULT

country
Australia
Australia
Australia

Ex-4 B

```sql
1  SELECT DISTINCT country
2  FROM customers;
```

▶ Execute   🖊 Clear   ✨ Beautify   ⤡ Minify

RESULT

country
Australia
Austria
Belgium

Ex-5

```sql
1  SELECT *
2  FROM customers
3  WHERE country = "USA";
```

▶ Execute   🖊 Clear   ✏ Beautify   ⤢ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone	add
112	Signal Gift Stores	King	Jean	7025551838	848
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	567
129	Mini Wheels Co.	Murphy	Julie	6505555787	555

Ex-6 A

```sql
1  SELECT *
2  FROM customers
3  WHERE country != "USA";
```

▶ Execute   🖋 Clear   ✨ Beautify   ⤢ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
103	Atelier graphique	Schmitt	Carine	40.32.25
114	Australian Collectors, Co.	Ferguson	Peter	03 9520
119	La Rochelle Gifts	Labrune	Janine	40.67.85

Ex-6 B

```sql
1  SELECT *
2  FROM customers
3  WHERE country <> "USA";
```

▶ Execute   🖊 Clear   ✨ Beautify   ✖ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
103	Atelier graphique	Schmitt	Carine	40.32.25
114	Australian Collectors, Co.	Ferguson	Peter	03 9520
119	La Rochelle Gifts	Labrune	Janine	40.67.85

Ex-7
A

SQL QUERY

```sql
1  SELECT *
2  FROM customers
3  WHERE creditLimit >= 100000 AND country = "USA";
```

▶ Execute   🧽 Clear   🪄 Beautify   ⚡ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone	add
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	567
131	Land of Toys Inc.	Lee	Kwai	2125557818	897
151	Muscle Machine Inc	Young	Jeff	2125557413	409

Ex-7 B

SQL QUERY

```sql
1 SELECT *
2 FROM customers
3 WHERE creditLimit >= 100000 OR country = "USA";
```

▶ Execute   ✐ Clear   ✐ Beautify   ✐ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
112	Signal Gift Stores	King	Jean	7025551838
114	Australian Collectors, Co.	Ferguson	Peter	03 9520 4555
119	La Rochelle Gifts	Labrune	Janine	40.67.8555

Ex-8

```sql
1  SELECT *
2  FROM customers
3  WHERE NOT (creditLimit >= 100000 OR country = "USA");
```

▶ Execute   ✎ Clear   ✏ Beautify   ✖ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
103	Atelier graphique	Schmitt	Carine	40.32.25
121	Baane Mini Imports	Bergulfsen	Jonas	07-98 95
125	Havel & Zbyszek Co	Piestrzeniewicz	Zbyszek	(26) 642

Ex-9
A

```sql
1  SELECT *
2  FROM customers
3  WHERE
4      country = "Uk"
5      OR country = "USA"
6      OR country = "France";
```

▶ Execute   ✐ Clear   ✏ Beautify   ⚡ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
103	Atelier graphique	Schmitt	Carine	40.32.2555
112	Signal Gift Stores	King	Jean	7025551838
119	La Rochelle Gifts	Labrune	Janine	40.67.8555

Ex-9 B

SQL QUERY

```sql
1 SELECT *
2 FROM customers
3 WHERE country IN ( "Uk", "USA", "France");
```

▶ Execute   ✎ Clear   ✨ Beautify   ✖ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
103	Atelier graphique	Schmitt	Carine	40.32.2555
112	Signal Gift Stores	King	Jean	7025551838
119	La Rochelle Gifts	Labrune	Janine	40.67.8555

SQL QUERY

```sql
1  SELECT *
2  FROM customers
3  WHERE country NOT IN ("Uk", "USA", "France");
```

▶ Execute   🖊 Clear   ✨ Beautify   ⚡ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
114	Australian Collectors, Co.	Ferguson	Peter	03 9520
121	Baane Mini Imports	Bergulfsen	Jonas	07-98 95
125	Havel & Zbyszek Co	Piestrzeniewicz	Zbyszek	(26) 642

Ex-11

```
1  SELECT *
2  FROM customers
3  WHERE customerNumber BETWEEN 100 AND 200;
```

▶ Execute   ✎ Clear   ✨ Beautify   ⤢ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
103	Atelier graphique	Schmitt	Carine	40.32.2555
112	Signal Gift Stores	King	Jean	7025551838
114	Australian Collectors, Co.	Ferguson	Peter	03 9520 4555

Exercises

Ex-1

SQL QUERY

```sql
1  SELECT
2      customerName,
3      creditLimit,
4      creditLimit * 10 AS newCreditLimit
5  FROM customers;
```

▶ Execute   ✐ Clear   ✏ Beautify   ↗ Minify

RESULT

customerName	creditLimit	newCreditLimit
Atelier graphique	21000.00	210000.00
Signal Gift Stores	71800.00	718000.00
Australian Collectors, Co.	117300.00	1173000.00

Ex-2

```
1  SELECT *
2  FROM orders
3  WHERE orderDate >= "2003-01-01";
```

▶ Execute | ✐ Clear | ✎ Beautify | ⤢ Minify

RESULT

orderNumber	orderDate	requiredDate	shippedDate	status	comments
10100	2003-01-06	2003-01-13	2003-01-10	Shipped	`null`
10101	2003-01-09	2003-01-18	2003-01-11	Shipped	Check on availability.
10102	2003-01-10	2003-01-18	2003-01-14	Shipped	`null`

Ex-3

```
1  SELECT *
2  FROM customers
3  WHERE customerNumber IN (141, 131, 321, 286);
```

▶ Execute   ⬛ Clear   🪄 Beautify   ⤢ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone	add
131	Land of Toys Inc.	Lee	Kwai	2125557818	897
141	Euro+ Shopping Channel	Freyre	Diego	(91) 555 94 44	C/
286	Marta's Replicas Co.	Hernandez	Marta	6175558555	393

Ex-4

```sql
1  SELECT *
2  FROM customers
3  WHERE creditLimit BETWEEN 100000 AND 110000;
```

▶ Execute   🖊 Clear   🪄 Beautify   ⤢ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
148	Dragon Souveniers, Ltd.	Natividad	Eric	+65 221 7555
157	Diecast Classics Inc.	Leong	Kelvin	2155551555
239	Collectable Mini Designs Co.	Thompson	Valarie	7605558146

Tasks

SQL QUERY

```
1  SELECT *
2  FROM customers
3  WHERE
4      creditLimit >= 1000000
5      AND customerNumber < 200
6      OR country = "USA";
```

▶ Execute   ✐ Clear   ✨ Beautify   ⤢ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone	add
112	Signal Gift Stores	King	Jean	7025551838	848
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450	567
129	Mini Wheels Co.	Murphy	Julie	6505555787	555

SQL QUERY

```sql
1  SELECT
2      *,
3      creditLimit + 2000 AS new_credit
4  FROM customers
5  ORDER BY new_credit DESC;
```

▶ Execute   ✏ Clear   🪄 Beautify   ⤢ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
141	Euro+ Shopping Channel	Freyre	Diego	(91) 555
124	Mini Gifts Distributors Ltd.	Nelson	Susan	41555514
298	Vida Sport, Ltd	Holz	Mihael	0897-034

T-3

SQL QUERY

```sql
1  SELECT *
2  FROM customers
3  ORDER BY  creditLimit DESC
4  LIMIT 3;
```

▶ Execute   ✎ Clear   ✏ Beautify   ✗ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
141	Euro+ Shopping Channel	Freyre	Diego	(91) 555 94 44
124	Mini Gifts Distributors Ltd.	Nelson	Susan	4155551450
298	Vida Sport, Ltd	Holz	Mihael	0897-034555

SQL QUERY

```sql
1  SELECT *
2  FROM customers
3  WHERE
4      contactFirstName REGEXP "^je"
5      OR contactFirstName REGEXP "^le";
```

▶ Execute   🖋 Clear   ✨ Beautify   ✂ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
112	Signal Gift Stores	King	Jean	7025551838
151	Muscle Machine Inc	Young	Jeff	2125557413
173	Cambridge Collectables Co.	Tseng	Jerry	6175555555

Ex-5

```sql
1  SELECT *
2  FROM customers
3  WHERE
4      contactFirstName REGEXP "el$"
5      OR contactFirstName REGEXP "ie";
```

▶ Execute   🖉 Clear   ✨ Beautify   ✖ Minify

RESULT

customerNumber	customerName	contactLastName	contactFirstName	phone
129	Mini Wheels Co.	Murphy	Julie	65055557
141	Euro+ Shopping Channel	Freyre	Diego	(91) 555
167	Herkku Gifts	Oeztan	Veysel	+47 2267

Ex-6

```
1  SELECT *
2  FROM customers
3  WHERE
4      contactFirstName REGEXP "bg"
5      OR contactFirstName REGEXP "ba";
```

▶ Execute   ✎ Clear   ✨ Beautify   ✂ Minify

RESULT

customerNumber customerName contactLastName contactFirstName phone addressLine1 addressLine