DBMS PRACTICAL NO.: 07

Name: yash ajay magar
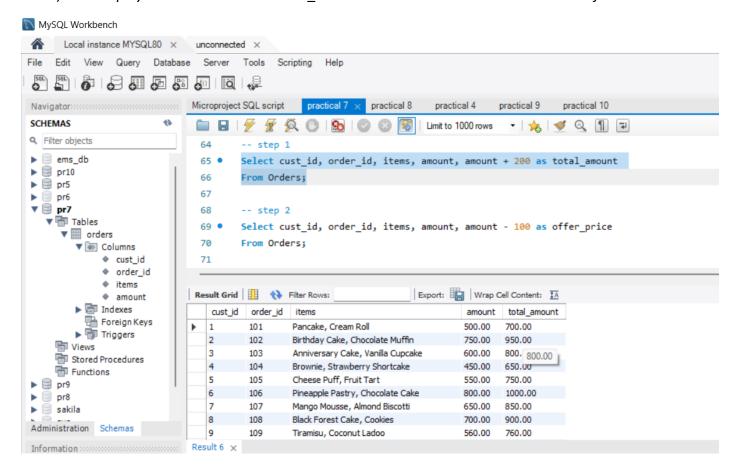
Experiment No 07: Write Queries using Arithmetic operators.

EXERCISE:

1. Consider the following schema Orders(cust_id, order_id, items, amount)

   Write queries for the following:

   i.   Display new column named total_amount which is 200 added to the amount field.
   ii.   Display new column named offer_price which is 100 subtracted from the amount field.
   iii.   Display new column named revised_amount which is multiplied by 5 times the amount field.
   iv.   Display new column named half_amount which is divided by 2 to the amount field.

   1)   Display new column named total_amount which is 200 added to the amount field.

cust_id	order_id	items	amount	total_amount
1	101	Pancake, Cream Roll	500.00	700.00
2	102	Birthday Cake, Chocolate Muffin	750.00	950.00
3	103	Anniversary Cake, Vanilla Cupcake	600.00	800.00
4	104	Brownie, Strawberry Shortcake	450.00	650.00
5	105	Cheese Puff, Fruit Tart	550.00	750.00
6	106	Pineapple Pastry, Chocolate Cake	800.00	1000.00
7	107	Mango Mousse, Almond Biscotti	650.00	850.00
8	108	Black Forest Cake, Cookies	700.00	900.00
9	109	Tiramisu, Coconut Ladoo	560.00	760.00

Result 6 ×

Output

Action Output

#	Time	Action	Message
✓ 50	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (47, 147, 'Patties, Cup Cakes', 650)	1 row(s) affected
✓ 51	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (48, 148, 'Choco Hazelnut Tart, Milky Way', ...	1 row(s) affected
✓ 52	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (49, 149, 'Almond Cake, Butterscotch Cake', ...	1 row(s) affected
✓ 53	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (50, 150, 'Paneer Tikka Puff, Eggless Chocol...	1 row(s) affected
✗ 54	13:06:05	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (50, 150, 'Paneer Tikka Puff, Eggless Chocol...	Error Code: 1062. Duplicate entry '50' for key ...
✓ 55	13:06:27	Select cust_id, order_id, items, amount, amount + 200 as total_amount From Orders LIMIT 0, 1000	50 row(s) returned

2)   Display new column named offer_price which is 100 subtracted from the amount field.

MySQL Workbench

Local instance MYSQL80 ×   unconnected ×

File   Edit   View   Query   Database   Server   Tools   Scripting   Help

Navigator:

SCHEMAS

Q Filter objects

- ems_db
- pr10
- pr5
- pr6
- pr7
  - Tables
    - orders
      - Columns
        - cust_id
        - order_id
        - items
        - amount
      - Indexes
      - Foreign Keys
      - Triggers
  - Views
  - Stored Procedures
  - Functions
- pr9
- pr8
- sakila

Administration   Schemas

Information

Microproject SQL script   practical 7 ×   practical 8   practical 4   practical 9   practical 10

Limit to 1000 rows

```
67
68      -- step 2
69 •    Select cust_id, order_id, items, amount, amount - 100 as offer_price
70      From Orders;
71
72      -- step 3
73 •    Select cust_id, order_id, items, amount, amount * 5 as revised_amount
74      From Orders;
```

Result Grid

cust_id	order_id	items	amount	offer_price
1	101	Pancake, Cream Roll	500.00	400.00
2	102	Birthday Cake, Chocolate Muffin	750.00	650.00
3	103	Anniversary Cake, Vanilla Cupcake	600.00	500.00
4	104	Brownie, Strawberry Shortcake	450.00	350.00
5	105	Cheese Puff, Fruit Tart	550.00	450.00
6	106	Pineapple Pastry, Chocolate Cake	800.00	700.00
7	107	Mango Mousse, Almond Biscotti	650.00	550.00
8	108	Black Forest Cake, Cookies	700.00	600.00
9	109	Tiramisu, Coconut Ladoo	560.00	460.00

Result 7 ×

cust_id	order_id	items	amount	offer_price
1	101	Pancake, Cream Roll	500.00	400.00
2	102	Birthday Cake, Chocolate Muffin	750.00	650.00
3	103	Anniversary Cake, Vanilla Cupcake	600.00	500.00
4	104	Brownie, Strawberry Shortcake	450.00	350.00
5	105	Cheese Puff, Fruit Tart	550.00	450.00
6	106	Pineapple Pastry, Chocolate Cake	800.00	700.00
7	107	Mango Mousse, Almond Biscotti	650.00	550.00
8	108	Black Forest Cake, Cookies	700.00	600.00
9	109	Tiramisu, Coconut Ladoo	560.00	460.00

Result 7 ×

Output

Action Output

#	Time	Action	Message
✓ 51	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (48, 148, 'Choco Hazelnut Tart, Milky Way', ...	1 row(s) affected
✓ 52	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (49, 149, 'Almond Cake, Butterscotch Cake', ...	1 row(s) affected
✓ 53	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (50, 150, 'Paneer Tikka Puff, Eggless Chocol...	1 row(s) affected
✗ 54	13:06:05	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (50, 150, 'Paneer Tikka Puff, Eggless Chocol...	Error Code: 1062. Duplicate entry '50' for key 'orders.PRIMARY'
✓ 55	13:06:27	Select cust_id, order_id, items, amount, amount + 200 as total_amount From Orders LIMIT 0, 1000	50 row(s) returned
✓ 56	13:07:28	Select cust_id, order_id, items, amount, amount - 100 as offer_price From Orders LIMIT 0, 1000	50 row(s) returned

3)   *Display new column named revised_amount which is multiplied by 5 times the amount field.*

MySQL Workbench

Local instance MYSQL80 ×   unconnected ×

File   Edit   View   Query   Database   Server   Tools   Scripting   Help

Navigator:

SCHEMAS

Filter objects

- ems_db
- pr10
- pr5
- pr6
- **pr7**
  - Tables
    - orders
      - Columns
        - cust_id
        - order_id
        - items
        - amount
      - Indexes
      - Foreign Keys
      - Triggers
  - Views
  - Stored Procedures
  - Functions
- pr9
- pr8
- sakila

Administration   Schemas

Information

Microproject SQL script | practical 7 × | practical 8 | practical 4 | practical 9 | practical 10

Limit to 1000 rows

```
71
72        -- step 3
73 •      Select cust_id, order_id, items, amount, amount * 5 as revised_amount
74        From Orders;
75
76        -- step 4
77 •      Select cust_id, order_id, items, amount, amount / 2 as half_amount
78        From Orders;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

cust_id	order_id	items	amount	revised_amount
1	101	Pancake, Cream Roll	500.00	2500.00
2	102	Birthday Cake, Chocolate Muffin	750.00	3750.00
3	103	Anniversary Cake, Vanilla Cupcake	600.00	3000.00
4	104	Brownie, Strawberry Shortcake	450.00	2250.00
5	105	Cheese Puff, Fruit Tart	550.00	2750.00
6	106	Pineapple Pastry, Chocolate Cake	800.00	4000.00
7	107	Mango Mousse, Almond Biscotti	650.00	3250.00
8	108	Black Forest Cake, Cookies	700.00	3500.00
9	109	Tiramisu, Coconut Ladoo	560.00	2800.00

Result 8 ×

cust_id	order_id	items	amount	revised_amount
1	101	Pancake, Cream Roll	500.00	2500.00
2	102	Birthday Cake, Chocolate Muffin	750.00	3750.00
3	103	Anniversary Cake, Vanilla Cupcake	600.00	3000.00
4	104	Brownie, Strawberry Shortcake	450.00	2250.00
5	105	Cheese Puff, Fruit Tart	550.00	2750.00
6	106	Pineapple Pastry, Chocolate Cake	800.00	4000.00
7	107	Mango Mousse, Almond Biscotti	650.00	3250.00
8	108	Black Forest Cake, Cookies	700.00	3500.00
9	109	Tiramisu, Coconut Ladoo	560.00	2800.00

Result 8 ✕

Output

Action Output ▾

#	Time	Action	Message
✓ 52	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (49, 149, 'Almond Cake, Butterscotch Cake', ...	1 row(s) affected
✓ 53	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (50, 150, 'Paneer Tikka Puff, Eggless Chocol...	1 row(s) affected
✗ 54	13:06:05	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (50, 150, 'Paneer Tikka Puff, Eggless Chocol...	Error Code: 1062. Duplicate entry '50' for key 'orders.PRIMARY'
✓ 55	13:06:27	Select cust_id, order_id, items, amount, amount + 200 as total_amount From Orders LIMIT 0, 1000	50 row(s) returned
✓ 56	13:07:28	Select cust_id, order_id, items, amount, amount - 100 as offer_price From Orders LIMIT 0, 1000	50 row(s) returned
✓ 57	13:09:48	Select cust_id, order_id, items, amount, amount * 5 as revised_amount From Orders LIMIT 0, 1000	50 row(s) returned

4)   *Display new column named half_amount which is divided by 2 to the amount field.*

MySQL Workbench

Local instance MYSQL80 ✕   unconnected ✕

File   Edit   View   Query   Database   Server   Tools   Scripting   Help

Navigator

Microproject SQL script   practical 7* ✕   practical 8   practical 4   practical 9   practical 10

SCHEMAS

Filter objects

▶ ems_db
▶ pr10
▶ pr5
▶ pr6
▼ pr7
  ▼ Tables
    ▼ orders
      ▼ Columns
         ◆ cust_id
         ◆ order_id
         ◆ items
         ◆ amount
      ▶ Indexes
       Foreign Keys
      ▶ Triggers
     Views
     Stored Procedures
     Functions
▶ pr9
▶ pr8
▶ sakila

Administration   Schemas

Information

Limit to 1000 rows

```
73 ●   Select cust_id, order_id, items, amount, amount * 5 as revised_amount
74     From Orders;
75
76     -- step 4
77 ●   Select cust_id, order_id, items, amount, amount / 2 as half_amount
78     From Orders;
79
80
```

| Result Grid | | Filter Rows: | | Export: | Wrap Cell Content: |

cust_id	order_id	items	amount	half_amount
1	101	Pancake, Cream Roll	500.00	250.000000
2	102	Birthday Cake, Chocolate Muffin	750.00	375.000000
3	103	Anniversary Cake, Vanilla Cupcake	600.00	300.000000
4	104	Brownie, Strawberry Shortcake	450.00	225.000000
5	105	Cheese Puff, Fruit Tart	550.00	275.000000
6	106	Pineapple Pastry, Chocolate Cake	800.00	400.000000
7	107	Mango Mousse, Almond Biscotti	650.00	325.000000
8	108	Black Forest Cake, Cookies	700.00	350.000000
9	109	Tiramisu, Coconut Ladoo	560.00	280.000000

Result 9 ✕

Output

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ⅂A

	cust_id	order_id	items	amount	half_amount
▶	1	101	Pancake, Cream Roll	500.00	250.000000
	2	102	Birthday Cake, Chocolate Muffin	750.00	375.000000
	3	103	Anniversary Cake, Vanilla Cupcake	600.00	300.000000
	4	104	Brownie, Strawberry Shortcake	450.00	225.000000
	5	105	Cheese Puff, Fruit Tart	550.00	275.000000
	6	106	Pineapple Pastry, Chocolate Cake	800.00	400.000000
	7	107	Mango Mousse, Almond Biscotti	650.00	325.000000
	8	108	Black Forest Cake, Cookies	700.00	350.000000
	9	109	Tiramisu, Coconut Ladoo	560.00	280.000000

Result 9 ✕

Output

▢ Action Output ▾

	#	Time	Action	Message
✓	53	13:05:29	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (50, 150, 'Paneer Tikka Puff, Eggless Chocol...	1 row(s) affected
✗	54	13:06:05	INSERT INTO Orders (cust_id, order_id, items, amount) VALUES (50, 150, 'Paneer Tikka Puff, Eggless Chocol...	Error Code: 1062. Duplicate entry '50' for key 'orders.PRIMARY'
✓	55	13:06:27	Select cust_id, order_id, items, amount, amount + 200 as total_amount From Orders LIMIT 0, 1000	50 row(s) returned
✓	56	13:07:28	Select cust_id, order_id, items, amount, amount - 100 as offer_price From Orders LIMIT 0, 1000	50 row(s) returned
✓	57	13:09:48	Select cust_id, order_id, items, amount, amount * 5 as revised_amount From Orders LIMIT 0, 1000	50 row(s) returned
✓	58	13:11:16	Select cust_id, order_id, items, amount, amount / 2 as half_amount From Orders LIMIT 0, 1000	50 row(s) returned