EXAMPLES

EXAMPLE 1

```
MariaDB [themepark_online]> select distinct(sale_date)
    -> from sales;
+------------+
| sale_date  |
+------------+
| 2007-05-18 |
+------------+
1 row in set (0.039 sec)
```

EXAMPLE 2

```
MariaDB [themepark_online]> select current_date(),current_time();
+----------------+----------------+
| current_date() | current_time() |
+----------------+----------------+
| 2021-04-10     | 07:29:44       |
+----------------+----------------+
1 row in set (0.000 sec)
```

EXAMPLE 3

```
MariaDB [themepark_online]> select emp_lname,emp_fname,emp_dob,date_format(emp_dob,"%b") as month from employee where mo
nth (emp_dob)="11";
+-----------+-----------+------------+-------+
| emp_lname | emp_fname | emp_dob    | month |
+-----------+-----------+------------+-------+
| Arshad    | Arif      | 1969-11-14 | Nov   |
| Denver    | Enrica    | 1980-11-08 | Nov   |
+-----------+-----------+------------+-------+
2 rows in set (0.148 sec)
```

EXAMPLE 4

PART-A

```
mysql> SELECT DATEDIFF("2008-12-25","2008-01-01");
+-------------------------------------+
| DATEDIFF("2008-12-25","2008-01-01") |
+-------------------------------------+
|                                 359 |
+-------------------------------------+
1 row in set (0.00 sec)
```

ANSWER: 359 DAYS

PART-B

```
MariaDB [themepark_online]> select datediff("2021-04-09","2009-12-25");
+-------------------------------------+
| datediff("2021-04-09","2009-12-25") |
+-------------------------------------+
|                                4123 |
+-------------------------------------+
1 row in set (0.035 sec)
```

ANSWER: 4123 DAYS

EXAMPLE 5

```
MariaDB [themepark_online]> select emp_lname,emp_fname,emp_hire_date,
    -> adddate(emp_hire_date,interval 12 month)as first_appraisal from employee;
+------------+----------+---------------+-----------------+
| emp_lname  | emp_fname | emp_hire_date | first_appraisal |
+------------+----------+---------------+-----------------+
| Calderdale | Emma     | 1992-03-15    | 1993-03-15      |
| Ricardo    | Marshel  | 1996-04-25    | 1997-04-25      |
| Arshad     | Arif     | 1990-12-20    | 1991-12-20      |
| Roberts    | Anne     | 1994-08-16    | 1995-08-16      |
| Denver     | Enrica   | 2001-10-20    | 2002-10-20      |
| Namowa     | Mirrelle | 2006-11-08    | 2007-11-08      |
| Smith      | Gemma    | 1989-01-05    | 1990-01-05      |
+------------+----------+---------------+-----------------+
7 rows in set (0.236 sec)
```

EXAMPLE 6

```
MariaDB [themepark_online]> select *
    -> from sales
    -> where sale_date>=last_day(sale_date)-20;
+----------------+-----------+------------+
| TRANSACTION_NO | PARK_CODE | SALE_DATE  |
+----------------+-----------+------------+
|          12781 | FR1001    | 2007-05-18 |
|          12782 | FR1001    | 2007-05-18 |
|          12783 | FR1001    | 2007-05-18 |
|          12784 | FR1001    | 2007-05-18 |
|          12785 | FR1001    | 2007-05-18 |
|          12786 | FR1001    | 2007-05-18 |
|          34534 | UK3452    | 2007-05-18 |
|          34535 | UK3452    | 2007-05-18 |
|          34536 | UK3452    | 2007-05-18 |
|          34537 | UK3452    | 2007-05-18 |
|          34538 | UK3452    | 2007-05-18 |
|          34539 | UK3452    | 2007-05-18 |
|          34540 | UK3452    | 2007-05-18 |
|          34541 | UK3452    | 2007-05-18 |
|          67589 | ZA1342    | 2007-05-18 |
|          67590 | ZA1342    | 2007-05-18 |
|          67591 | ZA1342    | 2007-05-18 |
|          67592 | ZA1342    | 2007-05-18 |
|          67593 | ZA1342    | 2007-05-18 |
+----------------+-----------+------------+
19 rows in set (0.014 sec)
```

EXAMPLE 7

```
MariaDB [themepark_online]> select transaction_no,line_price, mod(line_price,10)
    -> from sales_line
    -> where line_qty>2;
+----------------+------------+--------------------+
| transaction_no | line_price | mod(line_price,10) |
+----------------+------------+--------------------+
|          12785 |     139.96 |               9.96 |
|          34534 |     168.40 |               8.40 |
|          34540 |     168.40 |               8.40 |
|          67592 |     114.68 |               4.68 |
+----------------+------------+--------------------+
4 rows in set (0.019 sec)
```

ANSWER: THIS QUERY IS DISPLAYING THE TABLE CONTAINING TRANSACTION_NO, LINE_PRICE AND THE MOD OF LINE_PRICE

EXERCISE:-

TASK 1

```
mysql> use themepark
Database changed
mysql> select × from empfr;
+---------+-----------+-----------+-----------+------------+---------------+--------------+-----------+-----------+
| EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB    | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE |
+---------+-----------+-----------+-----------+------------+---------------+--------------+-----------+-----------+
|     101 | Ms        | Ricardo   | Marshel   | 1978-03-19 | 1996-04-25    | 0181         | 324-4472  | UK3452    |
+---------+-----------+-----------+-----------+------------+---------------+--------------+-----------+-----------+
1 row in set (0.00 sec)

mysql> update empfr set park_code="FR1001";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select × from empfr;
+---------+-----------+-----------+-----------+------------+---------------+--------------+-----------+-----------+
| EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB    | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE |
+---------+-----------+-----------+-----------+------------+---------------+--------------+-----------+-----------+
|     101 | Ms        | Ricardo   | Marshel   | 1978-03-19 | 1996-04-25    | 0181         | 324-4472  | FR1001    |
+---------+-----------+-----------+-----------+------------+---------------+--------------+-----------+-----------+
1 row in set (0.00 sec)
```

TASK 2

```
mysql> create view empfr as select × from employee where emp_num=100 with check option;
Query OK, 0 rows affected (0.04 sec)

mysql> update empfr set emp_phone="324-9652";
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select × from empfr;
+---------+-----------+-----------+-----------+------------+---------------+--------------+-----------+-----------+
| EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB    | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE |
+---------+-----------+-----------+-----------+------------+---------------+--------------+-----------+-----------+
|     100 | Ms        | Calderdale| Emma      | 1972-06-15 | 1992-03-15    | 0181         | 324-9652  | FR1001    |
+---------+-----------+-----------+-----------+------------+---------------+--------------+-----------+-----------+
1 row in set (0.00 sec)

mysql> drop view empfr;
Query OK, 0 rows affected (0.00 sec)
```

TASK 3

```
mysql> create view tparksold as select distinct  park_code,park_name,park_city,park_country from themepark
Query OK, 0 rows affected (1.24 sec)

mysql>
mysql>
mysql> select * from tparksold;
+-----------+--------------+--------------+--------------+
| park_code | park_name    | park_city    | park_country |
+-----------+--------------+--------------+--------------+
| FR1001    | FairyLand    | PARIS        | FR           |
| UK3452    | PleasureLand | STOKE        | UK           |
| ZA1342    | GoldTown     | JOHANNESBURG | ZA           |
+-----------+--------------+--------------+--------------+
3 rows in set (0.00 sec)
```

```
mysql> describe tparksold;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| park_code    | varchar(10) | NO   |     | NULL    |       |
| park_name    | varchar(35) | NO   |     | NULL    |       |
| park_city    | varchar(50) | NO   |     | NULL    |       |
| park_country | char(2)     | NO   |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

TASK 4

```
mysql> create view emp_details as select emp_num, park_code, park_name, emp_lname, emp_fname, emp_hire_date, emp_dob from employe
ark with check option;
Query OK, 0 rows affected (0.06 sec)

mysql> describe emp_details;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| emp_num       | decimal(4,0)| NO   |     | NULL    |       |
| park_code     | varchar(10) | YES  |     | NULL    |       |
| park_name     | varchar(35) | NO   |     | NULL    |       |
| emp_lname     | varchar(15) | NO   |     | NULL    |       |
| emp_fname     | varchar(15) | NO   |     | NULL    |       |
| emp_hire_date | date        | YES  |     | NULL    |       |
| emp_dob       | date        | NO   |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)

mysql> select * from emp_details;
```

```
mysql> select * from emp_details;
+---------+-----------+--------------+-----------+-----------+---------------+------------+
| emp_num | park_code | park_name    | emp_lname | emp_fname | emp_hire_date | emp_dob    |
+---------+-----------+--------------+-----------+-----------+---------------+------------+
|     100 | FR1001    | FairyLand    | Calderdale| Emma      | 1992-03-15    | 1972-06-15 |
|     101 | FR1001    | FairyLand    | Ricardo   | Marshel   | 1996-04-25    | 1978-03-19 |
|     102 | FR1001    | FairyLand    | Arshad    | Arif      | 1990-12-20    | 1969-11-14 |
|     103 | UK3452    | PleasureLand | Roberts   | Anne      | 1994-08-16    | 1974-10-16 |
|     104 | ZA1342    | GoldTown     | Denver    | Enrica    | 2001-10-20    | 1980-11-08 |
|     105 | FR1001    | FairyLand    | Namowa    | Mirrelle  | 2006-11-08    | 1990-03-14 |
|     106 | ZA1342    | GoldTown     | Smith     | Gemma     | 1989-01-05    | 1968-02-12 |
+---------+-----------+--------------+-----------+-----------+---------------+------------+
7 rows in set (0.00 sec)
```

TASK 5

```
mysql> select emp_fname,emp_lname from emp_details;
+------------+------------+
| emp_fname  | emp_lname  |
+------------+------------+
| Emma       | Calderdale |
| Marshel    | Ricardo    |
| Arif       | Arshad     |
| Anne       | Roberts    |
| Enrica     | Denver     |
| Mirrelle   | Namowa     |
| Gemma      | Smith      |
+------------+------------+
```

TASK 6

```
mysql> create view ticket_sales as select park_name, min(line_price) as Min_Line_Price, max(line_price) as Max_Line_price, avg(
_price from themepark natural join sales natural join sales_line group by park_code;
Query OK, 0 rows affected (0.06 sec)

mysql> select park_name, Min_Line_price, Max_Line_price from ticket_sales;
+-------------+----------------+----------------+
| park_name   | Min_Line_price | Max_Line_price |
+-------------+----------------+----------------+
| FairyLand   |          14.99 |         139.96 |
| PleasureLand|          21.98 |         168.40 |
| GoldTown    |          12.12 |         114.68 |
+-------------+----------------+----------------+
3 rows in set (0.00 sec)
```

TASK 7

```
mysql> select distinct (date_format (sale_date, '%a -  %e - %m - %y')) from sa
+--------------------------------------------------+
| (date_format (sale_date, '%a -  %e - %m - %y'))  |
+--------------------------------------------------+
| Fri -  18 - 05 - 07                              |
+--------------------------------------------------+
 row in set (0.00 sec)
```

TASK 8

```
mysql> select emp_fname, emp_lname, concat (date_format(emp_dob,'%m'),date_format(date_add(date_add(last_day(emp_dob),interval
h),'%d'),upper(substr(emp_lname,1,6))) as User_id from employee;
+-----------+-----------+-------------+
| emp_fname | emp_lname | User_id     |
+-----------+-----------+-------------+
| Emma      | Calderdale| 0601CALDER  |
| Marshel   | Ricardo   | 0301RICARD  |
| Arif      | Arshad    | 1101ARSHAD  |
| Anne      | Roberts   | 1001ROBERT  |
| Enrica    | Denver    | 1101DENVER  |
| Mirrelle  | Namowa    | 0301NAMOWA  |
| Gemma     | Smith     | 0201SMITH   |
+-----------+-----------+-------------+
7 rows in set (0.00 sec)
```

TASK 9

```
mysql> select emp_fname,emp_lname,emp_dob from employee where day(emp_dob)=14;
+-----------+-----------+------------+
| emp_fname | emp_lname | emp_dob    |
+-----------+-----------+------------+
| Arif      | Arshad    | 1969-11-14 |
| Mirrelle  | Namowa    | 1990-03-14 |
+-----------+-----------+------------+
2 rows in set (0.00 sec)
```

TASK 10

```
mysql> select concat(substr(emp_phone,1,3),lower(substr(emp_fname,1,2))) as USER_PASSWORD from employe
+---------------+
| USER_PASSWORD |
+---------------+
| 324em         |
| 324ma         |
| 675ar         |
| 898an         |
| 504en         |
| 890mi         |
| 324ge         |
+---------------+
```