

Q1)

Ans=

```
MySQL 8.0 Command Line Cli
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'c
urrent timestamp)' at line 1
mysql> create table Tasks(task_id int primary key auto_increment, title varchar(255) not null, start_date date, due_date date, status tinyint(20) not null,
priority tinyint(20) not null, description varchar(240), created_at default current timestamp);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version fo:
mysql> create table Tasks(task_id int primary key auto_increment, title varchar(255) not null, start_date date, due_date date, status tinyint(20) not null,
priority tinyint(20) not null, description varchar(240), created_at default current timestamp);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'd
efault current timestamp)' at line 1
mysql> create table Tasks(task_id int primary key auto_increment, title varchar(255) not null, start_date date, due_date date, status tinyint(20) not null,
priority tinyint(20) not null, description varchar(240), created_at default current timestamp);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'c
urrent timestamp)' at line 1
mysql> create table Tasks(task_id int primary key auto_increment, title varchar(255) not null, start_date date, due_date date, status tinyint(20) not null,
priority tinyint(20) not null, description varchar(240), created_at timestamp default current timestamp);
Query OK, 0 rows affected, 2 warnings (0.03 sec)

mysql> select tasks;
ERROR 1054 (42S22): Unknown column 'tasks' in 'field list'
mysql> desc tasks;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| task_id | int | NO | PRI | NULL | auto_increment |
| title | varchar(255) | NO | | NULL | |
| start_date | date | YES | | NULL | |
| due_date | date | YES | | NULL | |
| status | tinyint | NO | | NULL | |
| priority | tinyint | NO | | NULL | |
| description | varchar(240) | YES | | NULL | |
| created_at | timestamp | YES | | CURRENT_TIMESTAMP | DEFAULT_GENERATED |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql>
```

Q2)

Ans=

```
MySQL 8.0 Command Line Cli
foreign key references checklists(todo_id), todo varchar(255) not null)' at line 1
mysql> create table checklists(todo_id int primary key auto_increment, taskid int FK references checklists(todo_id), todo varchar(255) not null);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'F
K references checklists(todo_id), todo varchar(255) not null)' at line 1mysql> create table checklists(todo_id int primary key auto_increment, taskid int FK
references checklists(todo_id), todo varchar(255) not null);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'F
K references checklists(todo_id), todo varchar(255) not null)' at line 1mysql> create table checklists(todo_id int primary key auto_increment, taskid int FK
references checklists(todo_id), todo varchar(255) not null);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'F
oreign Key references tasks(task_id), todo varchar(255) not null)' at line 1
mysql> create table checklists(todo_id int primary key auto_increment, taskid int, todo varchar(255) not null, foreign key(taskid) references tasks(task_id))
;
ERROR 1024 (HY000): Failed to open the referenced table 'task'
mysql> create table checklists(todo_id int primary key auto_increment, taskid int, todo varchar(255) not null, foreign key(taskid) references tasks(task_id)
);
Query OK, 0 rows affected (0.02 sec)

mysql> desc checklistst;
ERROR 1146 (42S02): Table 'classicmodels.checklistst' doesn't exist
mysql> desc checklists;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| todo_id | int | NO | PRI | NULL | auto_increment |
| taskid | int | YES | MUL | NULL | |
| todo | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

Q3)

Ans= a) Insert,

```
MySQL 8.0 Command Line Cli
K references checklists(todo_id, todo varchar(255) not null)' at line 1mysql> create table checklists(todo_id int primary key auto_increment, taskid int, todo varchar(255) not null, foreign key(taskid) references tasks(task_id));
ERROR 1824 (HY000): Failed to open the referenced table 'task'
mysql> create table checklists(todo_id int primary key auto_increment, taskid int, todo varchar(255) not null, foreign key(taskid) references tasks(task_id));
Query OK, 0 rows affected (0.02 sec)

mysql> desc checklistst;
ERROR 1146 (42S02): Table 'classicmodels.checklistst' doesn't exist
mysql> desc checklists;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| todo_id | int | NO | PRI | NULL | auto_increment |
| taskid | int | YES | MUL | NULL | |
| todo | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> insert into checklists ( todo_id, todo) values(101,Sales),(102,Marketing),(103,Audit);
ERROR 1054 (42S22): Unknown column 'Sales' in 'field list'
mysql> insert into checklists ( todo_id, todo) values(101,"Sales"),(102,"Marketing"),(103,"Audit");
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from checklists;
+-----+-----+-----+
| todo_id | taskid | todo |
+-----+-----+-----+
| 101 | NULL | Sales |
| 102 | NULL | Marketing |
| 103 | NULL | Audit |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

b) Update,

```
MySQL 8.0 Command Line Cli

mysql> select * from checklists;
+-----+-----+-----+
| todo_id | taskid | todo |
+-----+-----+-----+
| 101 | NULL | Sales |
| 102 | NULL | Marketing |
| 103 | NULL | Audit |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> update checklists set todo_id=104 where todo="Purchase";
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> select * from checklists;
+-----+-----+-----+
| todo_id | taskid | todo |
+-----+-----+-----+
| 101 | NULL | Sales |
| 102 | NULL | Marketing |
| 103 | NULL | Audit |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> update checklists set todo="Purchase" where todo_id=103;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from checklists;
+-----+-----+-----+
| todo_id | taskid | todo |
+-----+-----+-----+
| 101 | NULL | Sales |
| 102 | NULL | Marketing |
| 103 | NULL | Purchase |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

C)Delete,

```
MySQL 8.0 Command Line Cli x + v
Rows matched: 0 Changed: 0 Warnings: 0

mysql> select * from checklists;
+-----+-----+-----+
| todo_id | taskid | todo |
+-----+-----+-----+
| 101 | NULL | Sales |
| 102 | NULL | Marketing |
| 103 | NULL | Audit |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> update checklists set todo="Purchase" where todo_id=103;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from checklists;
+-----+-----+-----+
| todo_id | taskid | todo |
+-----+-----+-----+
| 101 | NULL | Sales |
| 102 | NULL | Marketing |
| 103 | NULL | Purchase |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> Delete from checklists where todo_id=103;
Query OK, 1 row affected (0.01 sec)

mysql> select * from checklists;
+-----+-----+-----+
| todo_id | taskid | todo |
+-----+-----+-----+
| 101 | NULL | Sales |
| 102 | NULL | Marketing |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

Q4)

Ans=

```
MySQL 8.0 Command Line Cli x + v
mysql> select * from Parts;
Empty set (0.00 sec)

mysql> insert into parts value(1,"HDD",2500.77),(2,"SSD",7500.50)
-> insert into parts value(1,"HDD",2500.77),(2,"SSD",7500.50);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'i
nsert into parts value(1,"HDD",2500.77),(2,"SSD",7500.50)' at line 2
mysql> insert into parts value(1,"HDD",2500.77),(2,"SSD",7500.50);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> insert into parts value(1,"HDD",2500.77);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> create table Parts(part_no varchar(18) Primary Key, description varchar(40), cost decimal(10,2) check(cost>=0), price decimal(10,2) check (price>=0))
;
ERROR 1050 (42S01): Table 'parts' already exists
mysql> drop parts;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'p
arts' at line 1
mysql> drop table parts;
Query OK, 0 rows affected (0.01 sec)

mysql> create table Parts(part_no varchar(18) Primary Key, description varchar(40), cost decimal(10,2) check(cost>=0), price decimal(10,2) check (price>=0))
;
Query OK, 0 rows affected (0.01 sec)

mysql> insert into Parts(part_no,description,cost,price) values(1,'HDD',2500,2000),(2,'SDD',7500,6000);
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from Parts;
+-----+-----+-----+-----+
| part_no | description | cost | price |
+-----+-----+-----+-----+
| 1 | HDD | 2500.00 | 2000.00 |
| 2 | SDD | 7500.00 | 6000.00 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> insert into Parts(part_no,description,cost,price) values(3,'RAM',1000,-100);
ERROR 3819 (HY000): Check constraint 'parts_chk_2' is violated.
mysql>
```

Q5)

Ans=

```
MySQL 8.0 Command Line Cli x + v

;
ERROR 1059 (42S01): Table 'parts' already exists
mysql> drop parts;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'p
arts' at line 1
mysql> drop table parts;
Query OK, 0 rows affected (0.01 sec)

mysql> create table Parts(part_no varchar(18) Primary Key, description varchar(40), cost decimal(10,2) check(cost>=0), price decimal(10,2) check (price>=0))
;
Query OK, 0 rows affected (0.01 sec)

mysql> insert into Parts(part_no,description,cost,price) values(1,'HDD',2500,2000),(2,'SSD',7500,6000);
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from Parts;
+-----+-----+-----+-----+
| part_no | description | cost | price |
+-----+-----+-----+-----+
| 1 | HDD | 2500.00 | 2000.00 |
| 2 | SSD | 7500.00 | 6000.00 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> insert into Parts(part_no,description,cost,price) values(3,'RAM',1000,-100);
ERROR 3819 (HY000): Check constraint 'parts_chk_2' is violated.
mysql> create table categories(categoryid int primary key auto_increment,cotegoryname varchar(255) not null);
Query OK, 0 rows affected (0.02 sec)

mysql> desc categories;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| categoryid | int | NO | PRI | NULL | auto_increment |
| cotegoryname | varchar(255) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

Q6)

Ans= a) Table Creation,

```
MySQL 8.0 Command Line Cli x + v

mysql> create table Product(productid int primary key auto_increment,productname varchar(255) not null,categoryid int not null,constraint fk_key_id foreign
key(categoryid) references categories(categoryid) on delete cascade on update cascade);
Query OK, 0 rows affected (0.02 sec)

mysql> insert into categoies values (3,'Pendrive'),(4,'Modem');
ERROR 1146 (42S02): Table 'classicmodels.categoies' doesn't exist
mysql> insert into categories values (3,'Pendrive'),(4,'Modem');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from categories;
+-----+-----+
| categoryid | cotegoryname |
+-----+-----+
| 3 | Pendrive |
| 4 | Modem |
+-----+-----+
2 rows in set (0.00 sec)

mysql> insert into product values(1,'Pendrive_case',1);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails ('classicmodels`.`product`, CONSTRAINT `fk_key_id` FOREIGN KEY (`catego
ryid`) REFERENCES `categories` (`categoryid`) ON DELETE CASCADE ON UPDATE CASCADE)
mysql> insert into product values(1,'Pendrive_case',3);
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(2,'Modem_router',4);
Query OK, 1 row affected (0.01 sec)

mysql> inser into product values(3,'Modem_cable',4);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'i
nser into product values(3,'Modem_cable',4)' at line 1
mysql> insert into product values(3,'Modem_cable',4);
Query OK, 1 row affected (0.01 sec)

mysql> select * from product;
+-----+-----+-----+
| productid | productname | categoryid |
+-----+-----+-----+
| 1 | Pendrive_case | 3 |
+-----+-----+-----+
```

b) Insertion & updating,

```
MySQL 8.0 Command Line Cli x + v
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(2,'Modem_router',4);
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(3,'Modem_cable',4);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'i
nser into product values(3,'Modem_cable',4)' at line 1
mysql> insert into product values(3,'Modem_cable',4);
Query OK, 1 row affected (0.01 sec)

mysql> select * from product;
+-----+-----+-----+
| productid | productname | categoryid |
+-----+-----+-----+
| 1 | Pendrive_case | 3 |
| 2 | Modem_router | 4 |
| 3 | Modem_cable | 4 |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> update categories set categoryid=1 where categoriesid=3;
ERROR 1054 (42S22): Unknown column 'categoriesid' in 'where clause'
mysql> update categories set categoryid=1 where categorioid=3;
ERROR 1054 (42S22): Unknown column 'categorioid' in 'where clause'
mysql> update categories set categoryid=1 where categoryid=3;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from Product;
+-----+-----+-----+
| productid | productname | categoryid |
+-----+-----+-----+
| 1 | Pendrive_case | 1 |
| 2 | Modem_router | 4 |
| 3 | Modem_cable | 4 |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> |
```

C) Deletion,

```
MySQL 8.0 Command Line Cli x + v

mysql> select * from categories;
+-----+-----+
| categoryid | cotegoryname |
+-----+-----+
| 1 | Pendrive |
| 4 | Modem |
+-----+-----+
2 rows in set (0.00 sec)

mysql> select * from Product;
+-----+-----+-----+
| productid | productname | categoryid |
+-----+-----+-----+
| 1 | Pendrive_case | 1 |
| 2 | Modem_router | 4 |
| 3 | Modem_cable | 4 |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> Delete from categories where categoryid=4;
Query OK, 1 row affected (0.01 sec)

mysql> select * from categories;
+-----+-----+
| categoryid | cotegoryname |
+-----+-----+
| 1 | Pendrive |
+-----+-----+
1 row in set (0.00 sec)

mysql> select * from Product;
+-----+-----+-----+
| productid | productname | categoryid |
+-----+-----+-----+
| 1 | Pendrive_case | 1 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```