

Title : Design at least 10 SQL queries for suitable database application using SQL DML statements: all types of Join, Sub-Query and View

```
mysql> create table _master(product_no int,description varchar(20),profit_per float,unit_measure varchar(10),quantity int,reorder int,sell_price float,cost_price float,primary key(product_no));
```

Query OK, 0 rows affected (0.55 sec)

```
mysql> create table customer(cust_no int,cust_name varchar(20),cust_add varchar(20),phone_no int,primary key(cust_no));
```

Query OK, 0 rows affected (0.28 sec)

```
mysql> create table capital(cap_no int,cap_name varchar(20),state_no int,primary key(cap_no));
```

Query OK, 0 rows affected (0.27 sec)

```
mysql> create table state(state_no int,state_name varchar(20),state_code int,capital varchar(20),primary key(state_no));
```

Query OK, 0 rows affected (0.28 sec)

```
mysql> insert into capital values('01','MH','01');
```

Query OK, 1 row affected (0.12 sec)

```
mysql> insert into capital values('02','RAJ','02');
```

Query OK, 1 row affected (0.04 sec)

```
mysql> insert into capital values('03','GOA','03');
```

Query OK, 1 row affected (0.05 sec)

```
mysql> insert into capital values('04','GUJ','04');
```

Query OK, 1 row affected (0.05 sec)

```
mysql> insert into capital values('05','KAR','05');
```

Query OK, 1 row affected (0.04 sec)

```
mysql> insert into state values('01','MH','01','MUM');
```

Query OK, 1 row affected (0.03 sec)

```
mysql> insert into state values('02','RAJ','02','JAI');
```

Query OK, 1 row affected (0.03 sec)

```
mysql> insert into state values('03','GOA','03','PAN');
```

Query OK, 1 row affected (0.04 sec)

```
mysql> insert into state values('04','GUJ','04','SUR');
```

Query OK, 1 row affected (0.04 sec)

```
mysql> insert into state values('05','KAR','05','BAN');
```

Query OK, 1 row affected (0.03 sec)

```
mysql> select * from capital;
```

cap_no	cap_name	state_no
1	MH	1
2	RAJ	2
3	GOA	3
4	GUJ	4
5	KAR	5

5 rows in set (0.01 sec)

```
mysql> select * from state;
```

state_no	state_name	state_code	capital
1	MH	1	MUM
2	RAJ	2	JAI
3	GOA	3	PAN
4	GUJ	4	SUR
5	KAR	5	BAN

5 rows in set (0.00 sec)

```
mysql> select capital.cap_no, state.state_no from capital inner join state on capital.cap_no=state.state_no;
```

cap_no	state_no
1	1
2	2
3	3
4	4
5	5

5 rows in set (0.06 sec)

mysql> UPDATE state SET state_no="78" where state_no='1';

Query OK, 1 row affected (0.04 sec)
Rows matched: 1
Changed: 1
Warnings: 0

mysql> UPDATE state SET state_no="58" where state_no='2';

Query OK, 1 row affected (0.04 sec)
Rows matched: 1
Changed: 1
Warnings: 0

mysql> UPDATE state SET state_no="46" where state_no='3';

Query OK, 1 row affected (0.03 sec)
Rows matched: 1
Changed: 1
Warnings: 0

mysql> UPDATE state SET state_no="489" where state_no='4';

Query OK, 1 row affected (0.05 sec)
Rows matched: 1
Changed: 1
Warnings: 0

mysql> UPDATE state SET state_no="458" where state_no='5';

Query OK, 1 row affected (0.03 sec)
Rows matched: 1
Changed: 1
Warnings: 0

mysql> insert into state values('05','MP','05','BHO');

Query OK, 1 row affected (0.03 sec)

mysql> select capital.cap_no, state.state_no from capital inner join state on capital.cap_no=state.state_no;

```
+-----+-----+
| cap_no | state_no |
+-----+-----+
|        |          |
5 |        |
5 |        |
+-----+-----+
```

1 row in set (0.00 sec)

mysql> select capital.cap_no, state.state_no from capital left join state on capital.cap_no=state.state_no;

```

+-----+-----+
| cap_no | state_no |
+-----+-----+
| 1 | NULL |
| 2 | NULL |
| 3 | NULL |
| 4 | NULL |
| 5 | 5 |

```

5 rows in set (0.00 sec)

mysql> select capital.cap_no, state.state_no from capital left join state on capital.cap_no=state.state_name;

```

+-----+-----+
| cap_no | state_no |
+-----+-----+
| 1 | NULL |
| 2 | NULL |
| 3 | NULL |
| 4 | NULL |
| 5 | NULL |

```

5 rows in set, 20 warnings (0.00 sec)

mysql> select capital.cap_no, state.state_no from capital right join state on capital.cap_no=state.state_no;

```

+-----+-----+
| cap_no | state_no |
+-----+-----+
|
5 |
5 || NULL | 46 |
| NULL | 58 |
| NULL | 78 |
| NULL | 458 |
| NULL | 489 |

```

6 rows in set (0.00 sec)

mysql> select * from capital;

```

+-----+-----+-----+
| cap_no | cap_name | state_no |
+-----+-----+-----+
| 1 | MH | 1 |
| 2 | RAJ | 2 |
| 3 | GOA | 3 |
| 4 | GUJ | 4 |
| 5 | KAR | 5 |

```

5 rows in set (0.00 sec)

mysql> select * from state;

state_no	state_name	state_code	capital
5	MP	5	BHO
46	GOA	3	PAN
58	RAJ	2	JAI
78	MH	1	MUM
458	KAR	5	BAN
489	GUJ	4	SUR

6 rows in set (0.00 sec)

mysql> select * from capital;

cap_no	cap_name	state_no
1	MH	1
2	RAJ	2
3	GOA	3
4	GUJ	4
5	KAR	5

5 rows in set (0.00 sec)

mysql> select capital.cap_no, state.state_no from capital inner join state on capital.cap_no=state.state_no;

cap_no	state_no
5	5

1 row in set (0.00 sec)

mysql> select capital.cap_no,capital.cap_name,state.capital,state.state_no from capital inner join state on capital.cap_no=state.state_no;

cap_no	cap_name	capital	state_no
5	KAR	BHO	5

1 row in set (0.00 sec)

mysql> select capital.cap_no,capital.cap_name,state.capital,state.state_no from capital left join state on capital.cap_no=state.state_no;

cap_no	cap_name	capital	state_no
1	MH	NULL	NULL
2	RAJ	NULL	NULL
3	GOA	NULL	NULL
4	GUJ	NULL	NULL
5	KAR	BHO	5

5 rows in set (0.00 sec)

```
mysql> select * from state where state_no=(select state_no from state where state_name='MH');
```

state_no	state_name	state_code	capital
78	MH		
1	MUM		

1 row in set (0.06 sec)

```
mysql> select * from state where state_no=(select capital.state_no from capital where cap_name='MH');
```

Empty set (0.00 sec)

```
mysql> select * from state where state_no=(select capital.state_no from capital where cap_name='GUJ');
```

Empty set (0.00 sec)

```
mysql> select * from state where state_no=(select capital.state_no from capital where cap_name='RAJ');
```

Empty set (0.00 sec)