

2. Consider following Relation:
 Companies (comp_id, name, cost, year)
 C001 ONGC 2000 2010
 C002 HPCL 2500 2012
 C005 IOCL 1000 2014
 C006 BHEL 3000 2015
 Orders (comp_id, domain, quantity)
 C001 Oil 109
 C002 Gas 121
 C005 Telecom 115

Create above tables with appropriate constraints execute the following query:

1. Find names, costs, domains and quantities for companies using inner join.

mysql> select Companies.name, Companies.cost, Orders.domain, Orders.quantity from
 Companies INNER JOIN Orders ON Companies.comp_id = Orders.comp_id;

name	cost	domain	quantity
ONGC	2000	Oil	109
HPCL	2500	Gas	121
IOCL	1000	Telecom	115

3 rows in set (0.00 sec)

2. Find names, costs, domains and quantities for companies using left outer join.

mysql> select Companies.name, Companies.cost, Orders.domain, Orders.quantity from
 Companies left outer join Orders on Companies.comp_id = Orders.comp_id;

name	cost	domain	quantity
ONGC	2000	Oil	109
HPCL	2500	Gas	121
IOCL	1000	Telecom	115
BHEL	3000	NULL	NULL

4 rows in set (0.05 sec)

3. Find names, costs, domains and quantities for companies using right outer join.

mysql> select Companies.name, Companies.cost, Orders.domain, Orders.quantity from
 Companies right outer join Orders on Companies.comp_id = Orders.comp_id;

name	cost	domain	quantity
ONGC	2000	Oil	109
HPCL	2500	Gas	121
IOCL	1000	Telecom	115

3 rows in set (0.00 sec)

4. Find names, costs, domains and quantities for companies using Union operator.

mysql> select Companies.name, Companies.cost, Orders.domain, Orders.quantity from
 Companies left join Orders on Companies.comp_id = Orders.comp_id

-> UNION

-> select Companies.name, Companies.cost, Orders.domain, Orders.quantity from
 Companies right join Orders on Companies.comp_id = Orders.comp_id;

name	cost	domain	quantity
ONGC	2000	Oil	109
HPCL	2500	Gas	121
IOCL	1000	Telecom	115
BHEL	3000	NULL	NULL

4 rows in set (0.00 sec)

5. Create View View1 by selecting both tables to show company name and quantities.

mysql> create view View4 as select Companies.name, Orders.quantity from Companies
 left join Orders on Companies.comp_id = Orders.comp_id

```
-> UNION
-> select Companies.name,Orders.quantity from Companies right join Orders on
Companies.comp_id = Orders.comp_id;
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> select * from View4;
```

name	quantity
ONGC	109
HPCL	121
IOCL	115
BHEL	NULL

```
4 rows in set (0.00 sec)
```

6. Create View2 on Companies table by selecting any two columns and perform insert update delete operations.

```
mysql> create or replace view View5 as select comp_id,name from Companies;
```

```
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> select * from View5;
```

comp_id	name
C001	ONGC
C002	HPCL
C005	IOCL
C006	BHEL

```
4 rows in set (0.00 sec)
```

```
mysql> insert into View5 values("C007","DRD0");
```

```
Query OK, 1 row affected (0.04 sec)
```

```
mysql> insert into View5 values("C008","SRD");
```

```
Query OK, 1 row affected (0.04 sec)
```

```
mysql> select * from View5;
```

comp_id	name
C001	ONGC
C002	HPCL
C005	IOCL
C006	BHEL
C007	DRD0
C008	SRD

```
6 rows in set (0.00 sec)
```

```
mysql> update View5 set name="SSD" where comp_id="C007";
```

```
Query OK, 1 row affected (0.05 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from View5;
```

comp_id	name
C001	ONGC
C002	HPCL
C005	IOCL
C006	BHEL
C007	SSD
C008	SRD

```
6 rows in set (0.00 sec)
```

```
mysql> delete from View5 where comp_id="C005";
```

Query OK, 1 row affected (0.03 sec)

```
mysql> delete from View5 where comp_id="C006";
Query OK, 1 row affected (0.04 sec)
```

```
mysql> select * from View5;
```

comp_id	name
C001	ONGC
C002	HPCL
C007	SSD
C008	SRD

4 rows in set (0.00 sec)

7. Display content of View1, View2.

```
mysql> select * from View4;
```

name	quantity
ONGC	109
HPCL	121
IOCL	115
BHEL	NULL

4 rows in set (0.00 sec)

```
mysql> select * from View5;
```

comp_id	name
C001	ONGC
C002	HPCL
C007	SSD
C008	SRD

4 rows in set (0.00 sec)