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Databases 336

Project Queries

1.

```
SELECT NOT EXISTS(SELECT bill_id, bar, date, time, start, end FROM (SELECT *  
FROM bills b JOIN operates o USING (bar , date , day) WHERE (TIME(b.time) <  
TIME(o.start) OR TIME(b.time > o.end))) AS temp) AS Enforced
```

2.

```
SELECT NOT EXISTS (SELECT f.drinker FROM Frequents f, Bar b, Drinker d  
WHERE (f.drinker = d.name) AND (d.state != b.state) AND (f.bar = b.name)) AS  
Enforced
```

3.

```
SELECT NOT EXISTS(select b1.barname, b3.barname, b1.beername, b2.beername  
FROM sellsbeer b1,sellsbeer b2,sellsbeer b3,sellsbeer b4  
WHERE b1.barname=b2.barname AND b3.barname=b4.barname AND  
b1.barname!=b3.barname AND b1.beername!=b2.beername AND  
b1.beername=b3.beername AND b2.beername=b4.beername  
AND b1.price>=b2.price AND b3.price<b4.price) AS Enforced
```

4.

```
SELECT NOT EXISTS( SELECT * FROM((SELECT bar, beer, date, startquantity AS  
'StockQuantity' FROM Inventory ORDER BY bar ASC , beer ASC , date ASC) AS a  
JOIN  
(SELECT bar, item AS beer, date, SUM(quantity) AS 'SaleQuantity' FROM bills b JOIN  
Transactions t USING (bill_id) WHERE type = 'beer' GROUP BY bar , date , beer  
ORDER BY bar ASC , beer ASC , date ASC) AS b USING (bar , beer , date))  
WHERE(StockQuantity < SaleQuantity)) AS Enforced;
```

5.

```
SELECT NOT EXISTS (SELECT s.bartender FROM Shifts s, Shifts s1  
WHERE (s.bartender = s1.bartender) AND (s.date = s1.date) AND ((s.start != s1.start)  
OR (s.end != s1.end))) AS Enforced
```