

Key to Quiz2

1.How to find name and id of sailors who reserved boats in October?

```
SELECT S.sname, S.sid  
FROM Sailors AS S, Reserves AS R  
WHERE S.sid = R.sid and Month(day)=10;
```

2.How to find names of sailors who have reserved boat #103 and reserved only one time?

```
SELECT S.sname  
FROM Sailors AS S  
WHERE exists  
(Select *  
from Reserves R1  
where R1.bid =103 AND R1.sid = S.sid AND  
NOT exists  
(select *  
from Reserves R2  
where R2.bid = 103 AND R2.sid = R1.sid AND R1.day <> R2.day) );
```

3.How to find names of sailors who've reserved all boats?

```
SELECT sname  
FROM Sailors  
WHERE not exists  
(select *  
from Boats  
where not exists  
(select *  
from Reserves  
where Sailors.sid=Reserves.sid  
and Boats.bid=Reserves.bid))
```

4.How to find name of the oldest sailor who reserved "tiger" boat?

```
SELECT sname  
FROM (SELECT B.bid, max(S.age) AS m FROM Sailors AS S, Reserves AS  
R, Boats AS B  
WHERE S.sid = R.sid  
AND R.bid = B.bid
```

```
AND B.bname = "Tiger"  
GROUP BY B.bid) AS A, Sailors AS S2, Reserves AS R2  
WHERE A.bid = R2.bid and S2.age = A.m and S2.sid = R2.sid;
```

5.How to find the name of boats which have been reserved more than two times. (Note: you should use operator: COUNT)

```
SELECT bname  
FROM Boats  
WHERE bid in  
(select bid  
from Reserves  
group by bid  
having count(*)>2);
```