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**B190632CS**

**Set C (B03)**

**Topic: SQL Advanced**

- 1) `SELECT div_id, COUNT(*) AS machines_assoc FROM MACHINE GROUP BY div_id;`
- 2) `SELECT PERSONNEL.pname from PERSONNEL WHERE EXISTS (SELECT PERSONNEL.pname from PERSONNEL where PERSONNEL.pid=PRODUCTION.pid AND PRODUCTION.eid='E1' );`
- 3) `SELECT pname from PERSONNEL where PRODUCTION.pid=PERSONNEL.pid AND prod_date='dd-mm-yyyy';`
- 4) `SELECT pname from PERSONNEL WHERE PERSONNEL.pid=PRODUCTION.pid and PRODUCTION.eid=PARTS.eid and (PARTS.ecolor='red' or PARTS.ecolor='green');`

OR

`SELECT pname FROM personnel WHERE pid IN (SELECT pid FROM production WHERE eid IN (SELECT eid FROM parts WHERE ecolord='red' or ecolord='green'))`

- 5) `SELECT prod_date, COUNT(*) from PRODUCTION GROUP BY prod_date HAVING COUNT(*)=(SELECT MAX(cnt) FROM (SELECT COUNT(prod_date) AS cnt FROM PRODUCTION GROUP BY prod_date));`
- 6) `SELECT pid from PRODUCTION GROUP BY eid HAVING COUNT(*)=(SELECT MAX(cnt) FROM (SELECT COUNT(pid) AS cnt FROM PRODUCTION GROUP BY pid));`
- 7) `SELECT pname from PERSONNEL WHERE PERSONNEL.pid=PRODUCTION.pid GROUP BY eid HAVING COUNT(*)=(SELECT MAX(cnt) FROM (SELECT COUNT(pid) AS cnt FROM PRODUCTION GROUP BY pid));`
- 8) `SELECT pname from PERSONNEL WHERE PERSONNEL.pid=PRODUCTION.pid AND PRODUCTION.eid=MACHINE.eid GROUP BY PERSONNEL.pid HAVING COUNT(*)=1;`