

- 1) a) `select St.sname
from Store as St, Cloth as C, Sells as Se
where St.sid = Se.sid and Se.cid = C.cid
and country = 'Turkey' and size = 'XL';`
- b) `select max(price)
from Cloth as C, Sells as Se
where C.cid = Se.cid and gender = 'female' and
date = '2017-10-08';`
- c) `(select St.sname, St.zipcode
from Store as St, Cloth as C, Sells as Se
where St.sid = Se.sid and Se.cid = C.cid
and country = 'France' and price < 100 and
type = 'jeans' and gender = 'female') intersect
(select St.sname, St.zipcode
from Store as St, Cloth as C, Sells as Se
where St.sid = Se.sid and Se.cid = C.cid and
country = 'France' and price < 100 and type = 'jeans'
and gender = 'male');`
- d) `select C.cid, count(*) as quantity-sold
from Store as St, Cloth as C, Sells as Se
where St.sid = Se.sid and Se.cid = C.cid
and country = 'Germany' and type = 'suit'
group by C.cid;`

2) a) select B.brand-name, B.owner-company-name
 from Brand B, Model M, Engine E
 where B.brand-name = M.brand-name and
 M.engine-id = E.engine-id and country = 'Germany'
 and horse-power > 170 and price < 8000;

b) (select B.brand-name, B.owner-company-name
 from Brand B, Model M, Engine E
 where country = 'Germany') except
 (select B.brand-name, B.owner-company-name
 from Brand B, Model M, Engine E
 where B.brand-name = M.brand-name and
 M.engine-id = E.engine-id and fuel-type = 'diesel');

c) Select B.brand-name
 from Brand B, Model M
 where B.brand-name = M.brand-name and
 country = 'German'
 and exists (select *
 from Engine E
 where E.fuel-type = 'diesel' and
 M.engine-id = E.engine-id)
 and exists (select *
 from Engine X
 where X.horse-power > 300 and
 M.engine-id = X.engine-id);

d) select B.brand-name, M.model-name
 from Brand B, Model M
 where B.brand-name = M.brand-name and
 (select count(distinct E.engine-id)
 from Engine E
 where M.engine-id = E.engine-id) >= 5;

e) select B.brand-name, M.model-name
 from Brand B, Model M, Tax T
 where B.brand-name = M.brand-name and
 M.tax-level = T.tax-level and
 (select count(distinct E.engine-id)
 from Engine E
 where M.engine-id = E.engine-id) >= 5 and
 tax-cost between 150 and 300;

f) select avg(price)
 from Brand B, Model M, Engine E
 where B.brand-name = M.brand-name and
 M.engine-id = E.engine-id and country = 'France'
 and horse-power = 300;

g) select B.brand-name
 from Brand B, Model M
 where B.brand-name = M.brand-name and
 country = 'Germany' and

(select avg(Y1.price)
 from Brand X1, Model Y1
 where Y1.sold-amount > 1000) > (select avg(Y2.price)
 from Brand X2, Model Y2
 where X2.country = 'France')

h)

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select B.owner-company-name, B.brand-name  
from Brand B, Model M, Engine E  
where B.brand-name = M.brand-name and  
M.engine-id = E.engine-id and country = 'France' and  
fuel-type = 'gasoline' and  
sold-amount in (select min(Y.sold-amount)  
from Brand X, Model Y, Engine Z  
where X.brand-name = Y.brand-name  
and Y.engine-id = Z.engine-id  
and country = 'France' and  
fuel-type = 'gasoline');
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