A:

DBMS

(1) Library

a) Select b.id, b.title, b.pub_name, a.auth_name, c.no_of_copies, l.b_name from book b, book_auth a, Book_copies c, lib_branch l where b.book_id = a.book_id AND . . . . . .

b) Select card_no from book_lndy & Book_copies where date_out between '01-JAN-2017' AND '01-JUL-2017' GROUP BY Card_no having count(*) > 3;

c) Delete from book where book_id = '3';

d) CREATE VIEW V_PUB AS Select Pub_Year from Book;

e) CREATE VIEW VBOOKS AS Select b.book_id, b.title, C.no of copies from book b, book copies C, lib_branch l where C.book id = b.book id AND C.branch id = l.branch id;

(2) Sales Order

a) Select cust_id from customer where grade > (select avg(grade) from customer where city = 'bay');

b) *. Select a.salesman_id, a.name, ~~count(*)~~ from salesman a, my. customer c where a.salesman_id = c.salesman_id group by ~~sales~~ id, having count(*) > 1

(c) select s.salesman_id, name, cust_name, commission from ~~sales~~ salesman s, customer c where s.city = c.city union select salesman_id, name, 'no match', commission from salesman where city not in (select city from customer);

d) ~~little doubt~~ ✓ distinct distinct

✓ Select S.salesman_id, S.name, O.ord_date from salesman S, order O. where S.salesman_id = O.salesman_id AND O.purchase_amt = (select max(purchase_amt) from orders R where O.ord_date = R.ord_date); (V-SALES-HUBIT)

e) delete from salesman where id = 10??;

ALTER

→ Drop object objectname;

→ Alter table table_name ADD (col1 datatype, col2 datatype);

→ Alter table tablename DROP col colname coltype;

→ Alter table tablename MODIFY colname coltype;

Rename col;-

→ Alter table tablename change COLUMN old_name; To newname

→ Rename tablename;- Alter table tablename RENAME TO new_tab_name;

→ Update tablename set ____ where ____; (more than 1 by comma)

→ Delete from tablename where ____;

(3) Movie

a) select mov_title from movies m, directed
✓ where d.dir_id = m.dir_id AND
dir_name = 'BD';

b) Select m.movie_title from movies m, mov_cast c
my where m.movid = c.movid and Act_ID IN
✗ BY C.Act_id having count(*) > 1;

their Select m.movie_title from movies m, mov_cast c,
✓ where m.movid = c.movid AND Act_id IN (
select act_id from movie_cast Group by
act_id having count(mov_id) > 1) Group by
mov_title rating count(*) >2;

c) Select Actname, act_id, movtitle from
✗ Actor A JOIN MOVIECast C ON A.act_id =
C.act_id JOIN MOVIES M ON M.movid =
C.movid where MOV_year NOT BETWEEN
2000 AND 2015;

d) Select mov_title, max(rev_stars) from movies,
rating where movies.movid = rating.mov_id group by
(Rearrange?) mov_title having max(rev_stars) > 0 order by
mov_title;

e) Update rating set Rev_stars = 5
✓ where movid in (select movid from movies
where dir_id in (select dir_id from
director where dir_name = 'xyz'));

c) Select a.act_name from(actor a join movie cast c on a.act_id = c.act_id) join movies m on m.movid = c.movid where mov_year < 2000 and exists (select a.actname from (actor a join movie cast c on a.act_id = c.act_id) join movies m on m.movid = c.movid where mov_year > 2015);

(A) College

a) Select S.*, SS.SEM, SS.SEC from student S, semsec SS, class C where S.USN = C.USN and SS.SSID = C.SSID and sem=4 and sec='C';

b) Select SS.sem, SS.sec, S.gender, count(S.gender) as count from student S, semsec SS, class C where S.USN = C.USN & SS.SSID = C.SSID Group By SS.sem, SS.sec, S.gender.

c) Create view STUDMARKS1 AS select S.USN, S.name, SB.subcode, SB.TITLE, I.TEST1 from Student S, subject SB, IA_marks I where S.USN = I.USN AND SB.subcode = I.subcode AND S.USN = '1XX1234';

d) Update marks set finalIA = (test1 + test2 + test3 - least(test1, test2, test3))/2;

e) Select S.*, (CASE
WHEN IA.FINALIA Between 17 AND 20 THEN 'Outstanding' WHEN IA.FINALIA BETWEEN

12 and 16 then 'Average' ELSE 'WEAK'
END) AS CAT
from [redacted] IAMarks IA, SemSec SS,
[redacted] where [redacted], SS.Sid =
IA.Sid, [redacted] AND
SB.Sem = 8 AND SS.SEC IN ('A', 'B', 'C');

(5) Company.

Work on primary key? all 3.

a) Select distinct P.PNO from project P, dept D,
emp E where E.dno = P.dno AND E.SSN =
P.MGRSSN AND E.NAME LIKE '%SCOTT'.
UNION
Select distinct P.PNO from project P, workson W,
emp E where P.PNO = W.PNO AND E.SSN = W.SSN
AND E.NAME LIKE '%SCOTT';

as —

b) Select E.Name, E.Salary * 1.1 from employee E,
project P, workon W where E.SSN = W.SSN AND
P.PNO = W.PNO AND P.PNAME = 'IOT';

c) Select sum(salary), max(salary), min(salary),
avg(salary) from emp, dept where
emp.dno = dept.dno AND dept.dname = 'Accounts';

d) Select e.name from employee e where
not exists (select pno from project where
dno = 5 and pno not in (select pno from
workon where e.ssn = w.ssn));

e) Select d.dno, count(*) from employee e, dept d
where e.dno = d.dno AND e.salary > 60000
AND d.dno in (select e1.dno from employee e1
group by e1.dno having count(*) > 5)
group by d.dno;