Queries

views

1. create view top\_a\_star\_passengers\_view as select p.f\_name, p.l\_name, ct.date\_of\_membership, ct.no\_of\_bookings from (select \* from (select s.p\_id, COUNT(s.p\_id) as no\_of\_bookings, tc.date\_of\_issue as date\_of\_membership from sell s, astar\_passenger a , ticket t, travelcard tc WHERE s.p\_id = a.p\_id AND s.ticket\_id = t.ticket\_id AND t.date > DATE(CURRENT\_DATE - INTERVAL 1 YEAR) AND tc.card\_id = a.card\_id GROUP BY s.p\_id) as ct WHERE ct.no\_of\_bookings > 100) as ct, person p WHERE ct.p\_id = p.p\_id ;
2. create view popular\_bus\_view as SELECT b.bus\_no, b.license\_plate\_no, b.no\_of\_seats, COUNT(t.t\_bus\_no) as no\_of\_bookings FROM ticket t, bus b WHERE t.date > DATE(CURRENT\_DATE - INTERVAL 2 MONTH) AND t.t\_bus\_no = b.license\_plate\_no GROUP BY t.t\_bus\_no ORDER BY COUNT(t.t\_bus\_no) DESC LIMIT 1; (CHECK INTERVAL HERE ONCE IF IT WORKS)
3. create view top\_a\_class\_view as select ct.p\_id, ct.counts, p.f\_name, p.l\_name from (select s.p\_id as p\_id, COUNT(s.p\_id) as counts from sells\_ticket s, ticket t, aclass\_passenger a WHERE t.ticket\_id = s.ticket\_id AND s.date > DATE(CURRENT\_DATE - INTERVAL 2 MONTH) AND a.p\_id = s.p\_id GROUP BY s.p\_id) as ct, person p, (SELECT p\_id, max(phone) as phone\_number from person\_phone GROUP BY p\_id) as ph WHERE p.p\_id = ct.p\_id AND ct.counts > 4 AND ph.p\_id = ct.p\_id;
4. create view top\_employee\_view as select ct.p\_id, max(ct.counts) as counts, p.f\_name, p.l\_name from (select s.staff\_id as p\_id, COUNT(s.staff\_id) as counts from sell s, ticket t, staff st, employee e WHERE t.ticket\_id = s.ticket\_id AND t.date > DATE(CURRENT\_DATE - INTERVAL 1 MONTH) AND st.staff\_id = s.staff\_id AND st.employee\_id = e.employee\_id AND e.e\_id = s.p\_id GROUP BY s.p\_id) as ct, person p WHERE ct.p\_id = p.p\_id;
5. executed

select e.e\_type, e.employee\_id, p.f\_name, p.l\_name, p.gender from employee e, person p where p.person\_id = e.emp\_person\_id ORDER BY e.e\_type;

1. executed

select p.person\_id, p.f\_name, p.m\_name, p.l\_name FROM employee e, person p, a\_class\_passenger a where e.emp\_person\_id = a.ac\_person\_id AND e.emp\_person\_id = p.person\_id;

1. executed

select avg(count) as avg\_no\_bookings from (select count(ticket\_id) as count from top\_a\_star\_passengers, ticket where person\_id = t\_person\_id group by t\_person\_id)as bookings;

1. executed

select b.license\_plate\_no as bus\_id, b.bus\_route\_id as route\_id from popular\_bus as p, bus as b where p.license\_plate\_no = b.license\_plate\_no;

5)

6) executed

SELECT t.t\_bus\_no, COUNT(t.t\_bus\_no) FROM ticket t GROUP BY t.t\_bus\_no;

7) executed

select distinct f\_name as first\_name, l\_name as last\_name, dob as date\_of\_birth, street, city, p.zip\_code as zip\_code from person as p, zip\_code as z, employee, bus\_driver, drives where d\_driver\_i

d = driver\_id and d\_employee\_id = employee\_id and emp\_person\_id = person\_id and p.zip\_code = z.zip\_code and date > date(current\_date - interval 7 day);

8) executed

select count(t\_person\_id) from ticket where t\_bus\_no = (select license\_plate\_no from popular\_bus) group by t\_bus\_no;

9) executed

select \* from ticket where date > (select max(start\_date) from employee);

10) executed

select f\_name, l\_name, e\_type from person, employee, is\_emp\_a\_star, travel\_card where person\_id = emp\_person\_id and employee\_id = ea\_employee\_id and ea\_a\_star\_id = card\_a\_star\_id and issue\_date <

date(start\_date + interval 1 month);

11) Executed

SELECT stop\_route\_id, COUNT(\*) total FROM bus\_stop GROUP BY stop\_route\_id ORDER BY COUNT(\*) DESC LIMIT 1;

12) executed

select f\_name, l\_name from person, a\_class\_passenger, is\_a\_class\_a\_star, travel\_card where person\_id = ac\_person\_id and passenger\_id = aa\_passenger\_id and aa\_a\_star\_id = card\_a\_star\_id and issue\_date > date(current\_date - interval 5 year);

13) executed

select \* from ticket where t\_person\_id in (select person\_id from potential\_a\_star\_passenger) and date > date(current\_date - interval 1 year);

CREATE VIEW `top\_a\_star\_passengers` AS

select person\_id, f\_name as first\_name, l\_name as last\_name, issue\_date as date\_of\_membership

from person, ticket, travel\_card

where (person\_id, card\_id) in

(select person\_id, card\_id

from person, travel\_card

where exists

(select \*

from a\_class\_passenger, is\_a\_class\_a\_star

where passenger\_id = aa\_passenger\_id and person\_id = ac\_person\_id and aa\_a\_star\_id = card\_a\_star\_id)

or exists

(select \*

from employee, is\_emp\_a\_star

where employee\_id = ea\_employee\_id and person\_id = emp\_person\_id and ea\_a\_star\_id = card\_a\_star\_id))

and person\_id = t\_person\_id

and date > date(current\_date - interval 1 month)

group by t\_person\_id

having count(ticket\_id) > 6;

CREATE VIEW `popular\_bus` AS

select license\_plate\_no, bus\_no, no\_of\_seats, bus\_type

from bus, ticket

where license\_plate\_no = t\_bus\_no

and date > date(current\_date - interval 2 month)

group by t\_bus\_no

order by count(ticket\_id)

limit 1;

CREATE VIEW `potential\_a\_star\_passenger` AS

select f\_name as first\_name, m\_name as middle\_name, l\_name as last\_name, phone\_no as phone\_number, person\_id

from person, person\_phone, ticket

where not exists

(select \*

from a\_class\_passenger, is\_a\_class\_a\_star

where passenger\_id = aa\_passenger\_id and person\_id = ac\_person\_id)

and person\_id = phn\_person\_id

and person\_id = t\_person\_id

and date > date(current\_date - interval 2 month)

group by t\_person\_id

having count(ticket\_id) > 4;

CREATE VIEW `top\_employee` AS

select f\_name as first\_name, l\_name as last\_name, start\_date, e\_type as employee\_type

from person, employee, ticket

where person\_id = emp\_person\_id

and person\_id = t\_person\_id

and date > date(current\_date - interval 1 month)

group by t\_person\_id

having max(ticket\_id);

select distinct f\_name as first\_name, l\_name as last\_name, dob as date\_of\_birth, street, city, p.zip\_code as zip\_code from person as p, zip\_code as z, employee, bus\_driver, drives where d\_driver\_id = driver\_id and d\_employee\_id = employee\_id and emp\_person\_id = person\_id and p.zip\_code = z.zip\_code and date >= group by d\_driver\_id having count(d\_driver\_id) = 7;