

SAMPLE VIEW CREATION

View Number	Command
1	<p>Top A-Star Passenger- This view returns the First Name, Last Name and Date of membership enrollment of those passengers who have travelled more than 60 times in the past year.</p> <pre> create view view1_top_astarpassengers 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 ; </pre>
2	<p>Popular Bus- This view returns the details of the bus that the passenger has booked the most in the past 2 years.</p> <pre> create view view2_popular_bus as SELECT b.bus_no, b.lic_no, b.no_of_seats, COUNT(t.bus_id) as no_of_bookings FROM ticket t, bus b WHERE t.date > DATE(CURRENT_DATE - INTERVAL 2 YEAR) AND t.bus_id = b.bus_no GROUP BY t.bus_id ORDER BY COUNT(t.bus_id) DESC LIMIT 1; </pre>
3	<p>Top Delayed/Cancelled Bus- This view returns the details of the bus that has been delayed or cancelled the most in the last month.</p> <pre> create view view3_top_delayed_bus as SELECT ct.bus_no, max(ct.counts) as del_can_count, b.lic_no, b.no_of_seats from (SELECT s.bus_no, COUNT(s.bus_no) as counts FROM status s WHERE s.date > DATE(CURRENT_DATE - INTERVAL 1 MONTH) AND s.status in ('delayed', 'cancelled') GROUP BY s.bus_no) as ct, bus b WHERE b.bus_no = ct.bus_no; </pre>

4	<p>Potential A-Star Passenger- This view returns the name, phone number and ID of the A-Class Passengers who travelled more than 40 time in the past 2 months.</p> <pre> create view view4_top_employees as select ct.p_id, ct.counts, p.f_name, p.l_name, ph.phone_number from (select s.p_id as p_id, COUNT(s.p_id) as counts from sell s, ticket t, aclass_passenger a WHERE t.ticket_id = s.ticket_id AND t.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 > 15 AND ph.p_id = ct.p_id; </pre>
5	<p>Top Employee- This view returns the details of the employee who has made the greatest number of bookings in the past month.</p> <pre> create view view5_top_employee as select ct.p_id, max(ct.counts) as counts, p.f_name, p.l_name from (select s.p_id as p_id, COUNT(s.p_id) as counts from sell s, ticket t, employee e WHERE t.ticket_id = s.ticket_id AND t.date > DATE(CURRENT_DATE - INTERVAL 1 MONTH) AND e.e_id = s.p_id GROUP BY s.p_id) as ct, person p WHERE ct.p_id = p.p_id; </pre>