**QUESTIONS:**

1. **How can we see the names of people residing in the city, Hokkaido?**

SELECT names FROM city\_directory;

1. **How can we obtain the entire city directory of the people residing in the city, Hokkaido?**

SELECT \* FROM city\_directory;

1. **We need to update the phone number of yashiko Yoshida, how are we supposed to do that?**

UPDATE city\_directory

SET phone\_number = 78659438

WHERE pid = 7;

1. **Good going, further we seek to find a safe citizen, who works in a hotel who is a victim, to discover the clue at the midnight.**

SELECT \* FROM city\_directory

where occupation = 'chef'

1. **This is shocking to know that we found the clue near the hotel itself from where the chef works, this is something fishy now; we need to find all the guest information from the hotel.**

SELECT \* FROM hotel\_bookings;

1. **The intruder seems professional in dealing with chemicals, what profession does he/she possess? Also check their safety status.**

SELECT \* FROM city\_directory

where occupation='chemist' and safety\_status='unsafe' or

safety\_status=’safe’

1. **For finding the chemical we need to take help of the forensic department, to list all the chemicals.**

SELECT \* FROM forensics\_report;

1. **Half way there to catch the intruder and help detective reach her goal, find a specific chemical which is flammable in nature and pure white in color which is highly used in tnt bomb making, from the forensic department.**

SELECT \* FROM forensics\_report

WHERE classified=’combustible’ and

Color = ‘white’

1. **Brilliant move, now to further investigate we reach the police department to find the criminal records for supplementary clues.**

SELECT \* FROM criminal\_records;

1. **Let’s find the name of the guests who checked in to the hotel after 18th November?**

SELECT \* FROM hotel\_bookings where checkindate > '18-NOV-23'

1. **Its getting complex, we need to join the check-in date from the hotel directory and release date from the criminal record, so that the detective can compare both the datas for more clarification.**

SELECT hotel\_bookings.guestname, criminal\_records.names, hotel\_bookings.CHECKINDATE, criminal\_records.release\_date

FROM hotelguests

INNER JOIN criminal\_records ON hotel\_bookings.CHECKINDATE=criminal\_records.release\_date

1. **Find the avg and sum of the totalcost in the hotel bookings directory?**

SELECT AVG(TotalCost) AS average\_TotalCost

FROM hotel\_bookings;

SELECT SUM(TotalCost) AS total\_cost

FROM hotel\_bookings;

1. **To make the hotel directory more systematic, group up the guestid and their total cost of their stay in a descending order.**

SELECT guestid, AVG(TotalCost) AS avg\_TotalCost

FROM hotel\_bookings

GROUP BY guestid

ORDER BY avg\_TotalCost DESC;

1. **Lets play a wildcard to find all phone numbers starting from the number ‘8’ in the city directory.**

SELECT \*

FROM city\_directory

WHERE PHONE\_NUMBER LIKE '8%';

1. **Lets find the age group between 1990 to 2000 with their names.**

SELECT pid, name, date\_of\_birth

FROM city\_directory

WHERE age BETWEEN 20 AND 30;

1. **Your solution is already in the problem, its just we need to take things open mindedly, does dates play a major role in finding the intruder?**

SELECT hotel\_bookings.guestname, criminal\_records.firstname, hotel\_bookings.dateofbirth, criminal\_records.dateofbirth

FROM hotel\_bookings

INNER JOIN criminal\_records ON hotel\_bookings.dateofbirth=criminal\_records.dateofbirth

1. **The last question, will confirm the real identity of the intruder, we need a strong evidence to prove the intruder guilty, something like an identification mark of the criminal, what shall we do to conquer this game?**

SELECT firstname, lastname, identificationmark FROM criminal\_records;