*NOLLE*

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*L3 – Informatique*

**Base de Données (Devoir 2) :**

| _Note :_ | _Observation :_ |
|---|---|
| _/20_ | |

Q1 :

SELECT DISTINCT NomClient

FROM CLIENT

INNER JOIN RESERVATION ON RESERVATION.ID_Client = CLIENT.ID_Client

INNER JOIN HOTEL ON HOTEL.ID_Hotel = RESERVATION.ID_Hotel

INNER JOIN STATION ON STATION.ID_Station = HOTEL.ID_Station

WHERE NomHotel = "Les Ducs de Savoie"

AND NomStation = "Courcheval"


Q2 :

SELECT DISTINCT HOTEL.NomHotel

FROM HOTEL

INNER JOIN RESERVATION AS R1 ON R1.ID_Hotel = HOTEL.ID_Hotel

INNER JOIN CLIENT AS C1 ON R1.ID_Client = C1.ID_Client

WHERE C1.NomClient = "Dupont"

AND R1.ID_Hotel IN (SELECT R2.ID_Hotel

               FROM RESERVATION AS R2

               INNER JOIN CLIENT AS C2 ON R2.ID_Client = C2.ID_Client

               WHERE C2.NomClient = "Dubois")

Q3 :

SELECT COUNT(*) AS nb_hotels

FROM HOTEL

INNER JOIN STATION ON STATION.ID_Station = HOTEL.ID_STATION

WHERE NomStation = "Meribel"

Q4 :

SELECT NomClient

FROM CLIENT

INNER JOIN RESERVATION AS R1 ON R1.ID_Client = CLIENT.ID_Client

WHERE R1.ID_Hotel IN (SELECT R2.ID_Hotel

FROM RESRVATION AS R2

WHERE R2.ID_Client = "CR148-20-03")

Q5 :

SELECT NomStation, COUNT(*) AS nb_hotel, SUM(NombrePlaces) AS total_nb_places

FROM STATION

INNER JOIN HOTEL ON HOTEL.ID_Station = STATION.ID_Station

GROUP BY NomStation

Q6 :

SELECT NomStation

FROM STATION

INNER JOIN HOTEL ON HOTEL.ID_Station = STATION.ID_Station

GROUP BY NomStation

HAVING SUM(NombrePlaces) >= 100

Q7 :

```sql
SELECT R1.ID_Client

FROM RESERVATION AS R1

WHERE NOT EXISTS (SELECT S1.ID_Station

                  FROM STATION AS S1

                  WHERE NOT EXISTS (SELECT HOTEL.ID_Station, R2.ID_Client

                                    FROM RESERVATION AS R2

                                    INNER JOIN HOTEL ON HOTEL.ID_Hotel = R2.ID_Hotel

                                    WHERE HOTEL.ID_Station = S1.ID_Station

                                    AND R2.ID_Client = R1.ID_Client))
```

Q8 :

```sql
SELECT NomClient

FROM CLIENT

WHERE ID_Client NOT IN (SELECT DISTINCT RESERVATION.ID_Client

                        FROM RESERVATION

                        INNER JOIN HOTEL ON HOTEL.ID_Hotel = RESERVATION.ID_Hotel

                        WHERE ID_Station = 45)
```