```sql
/* Queries */
/* 1 Queries for the amount of data in the tables*/
SELECT COUNT(*) "Number of Staff"
FROM STAFF;
SELECT COUNT(*) "Number of Specialities"
FROM SPECIALITY;
SELECT COUNT(*) "Number of Staff Specialities"
FROM STAFF_SPECIALITY;
SELECT COUNT(*) "Number of Charges"
FROM CHARGES;
SELECT COUNT(*) "Number of Consultations"
FROM CONSULTATION;

/* 2 returns staff that joined before 23-jan-17*/
SELECT *
FROM STAFF
WHERE datejoined < '23-Jan-2017';

/* 3 returns staff that have left the company*/
SELECT *
FROM STAFF
WHERE dateleft IS NOT NULL;

/* 4 returns staff that have left and are female*/
Select *
FROM STAFF
WHERE dateleft IS NOT NULL
AND GENDER = 'F';

/* 5 returns desired values of charges that include a casual patient*/
SELECT ChrgCode "Charge Code", ChrgDescription "Description", HourlyRate "Hourly Rate"
FROM CHARGES
WHERE ChrgDescription LIKE '%casual%';

/* 6 returns results that dont have a casual patient*/
SELECT ChrgCode "Charge Code",ChrgDescription "Description", HourlyRate "Hourly Rate"
FROM CHARGES
WHERE ChrgDescription NOT LIKE '%casual%';

/* 7 returns the highest lowest and average hourly rate for charges*/
COLUMN "Highest Rate" FORMAT $999.99
COLUMN "Lowest Rate" FORMAT $999.99
COLUMN "Average Rate" FORMAT $999.99
SELECT MAX(HourlyRate) "Highest Rate",MIN(HourlyRate) "Lowest Rate",AVG(HourlyRate)
"Average Rate"
FROM CHARGES;

/* 8 Returns selected values including a calculated value Duration Rate using Hourly
rate and duration*/
COLUMN "Duration Rate" FORMAT $999.99
SELECT ChrgCode "Charge Code",HourlyRate "Hourly Rate",Duration
"Duration",HourlyRate*Duration/60 AS "Duration Rate"
FROM CHARGES;

/* 9 returns selected values from staff speciality and calculates the days valid for
their speciality*/
SELECT StaffId "Staff Id",SpecId "Speciality Id",DateQualified "Date
Qualified",ValidTillDate "Valid Till Date",ValidTillDate-DateQualified AS "Days Valid"
FROM STAFF_SPECIALITY;

/* 10 calculates and returns their due date for their charges plus some other values*/
SELECT StaffId "Staff Id",ChrgCode "Charge Code",DateConsulted "Date
Consulted",PatientNo "Patient Num",DateConsulted+21 AS "Due Date"
FROM CONSULTATION;

/* 11 Joins the Speciality and Staff Speciality table to display the specialities name
with all of staff speciality columns*/
SELECT StaffId "Staff Id", SS.SpecId "Speciality Id", S.SpecName "Speciality Name",
DateQualified "Date Qualified", ValidTillDate "Valid Till Date"
```

```sql
62   FROM  STAFF_SPECIALITY SS
63   JOIN SPECIALITY S ON SS.SpecId = S.SpecId;
64
65   /* 12 Joins the colsultation and charges table to display the hourly rate for evry
     colsultation with their data*/
66   SELECT StaffId "Staff Id",PatientNo "Patient Num",DateConsulted "Date
     Consulted",StartTime "Start Time",CHARGES.HourlyRate "Hourly Rate"
67   FROM CONSULTATION
68   JOIN CHARGES ON CONSULTATION.ChrgCode = CHARGES.ChrgCode;
69
70   /* 13 displays staffs full name and ID with their spec ID for male staff*/
71   SELECT STAFF.StaffId "Staff Id",STAFF.FirstName||' '||STAFF.LastName "Staff Full
     Name",SpecId "Speciality Id"
72   FROM STAFF_SPECIALITY JOIN STAFF ON STAFF_SPECIALITY.StaffId = STAFF.StaffId
73   WHERE STAFF.Gender = 'M';
74
75   /* 14 returns staff ID spec ID and speciuality notes if the notes relate to surgeon or
     surgery*/
76   SELECT StaffId "Staff Id",SPECIALITY.SpecName "Speciality Name",SPECIALITY.SpecNotes
     "Details"
77   FROM STAFF_SPECIALITY JOIN SPECIALITY ON STAFF_SPECIALITY.SpecId = SPECIALITY.SpecId
78   WHERE SPECIALITY.SpecNotes LIKE '%Surge%' OR SPECIALITY.SpecNotes LIKE '%surge%';
79
80   /* 15 Shows staff ID patient number charge description and time for all consultations
     after 9.45 and ordered by decending Staff ID*/
81   SELECT StaffId,PatientNo, CHARGES.ChrgDescription, StartTime
82   FROM CONSULTATION
83   JOIN CHARGES ON CONSULTATION.ChrgCode = CHARGES.ChrgCode
84   WHERE StartTime > 9.45
85   ORDER BY StaffId DESC;
86
87   /* 16 Show staff ID and their number of consultations */
88   SELECT StaffId "Staff Id",COUNT(*) "Num of Consults"
89   FROM CONSULTATION
90   GROUP BY StaffId;
91
92   /* 17 shows staff id and their number of consultations if they have more than two
     consultations*/
93   SELECT StaffId "Staff Id",COUNT(*) "Num of Consults"
94   FROM CONSULTATION
95   GROUP BY StaffId
96   HAVING COUNT(*) > 2;
97
98   /* 18 Show sthe speciality ID and the number of staff with that speciality and displays
     in decending of the number of staff*/
99   SELECT SpecId "Speciality Id", COUNT(StaffId) "Num with Speciality"
100  FROM STAFF_SPECIALITY
101  GROUP BY SpecId
102  ORDER BY COUNT(StaffId) DESC;
103
104  /* 19 shows the number of staff having that speciality only if they have more than two
     staff and sorts by ascending of staff count*/
105  SELECT SpecId "Speciality Id", COUNT(StaffId) "Num with Speciality"
106  FROM STAFF_SPECIALITY
107  GROUP BY SpecId
108  HAVING COUNT(StaffId) > 2
109  ORDER BY COUNT(StaffId) ASC;
110
111  /* 20 shows staff full name and the number of specialities they have*/
112  SELECT FirstName||' '||LastName "Staff Full Name",Count(STAFF_SPECIALITY.SpecId) "Num
     Specialities"
113  FROM STAFF
114  JOIN STAFF_SPECIALITY ON STAFF.StaffId = STAFF_SPECIALITY.StaffId
115  GROUP BY FirstName||' '||LastName;
116
117  /* 21 shows the staff full name and their number of specialities if they are male and
     have more than one specialities*/
118  SELECT FirstName||' '||LastName "Staff Full Name",Count(STAFF_SPECIALITY.SpecId) "Num
     Specialities"
```

```sql
119    FROM STAFF
120    JOIN STAFF_SPECIALITY ON STAFF.StaffId = STAFF_SPECIALITY.StaffId
121    WHERE Gender = 'M'
122    GROUP BY FirstName||' '||LastName
123    HAVING COUNT(STAFF_SPECIALITY.SpecId) > 1;
124
125    /* 22 shows staff ID their full name speciality ID and Spec name for all staff*/
126    SELECT St.StaffId,FirstName||' '||LastName "Staff Full Name",SS.SpecId,S.SpecName
127    FROM STAFF St
128    JOIN STAFF_SPECIALITY SS ON SS.StaffId = St.StaffId
129    JOIN SPECIALITY S ON SS.SpecId = S.SpecId;
```