5 Queries

1.

```
UPDATE service_sheet
SET finish_date = TO_DATE('22/04/2022', 'DD/MM/YYYY'), service_complete ='Yes'
WHERE service_id=3;
```
This query will update the table once the service has been completed.

```
up2068268_cw=# select * from service_sheet where service_id=3;
 service_id | booking_id | start_date | finish_date | service_complete | service_cost
------------+------------+------------+-------------+------------------+--------------
          3 |          3 | 2022-04-20 |             | No               | £3532
(1 row)

up2068268_cw=# UPDATE service_sheet
up2068268_cw-# SET finish_date = TO_DATE('22/04/2022', 'DD/MM/YYYY'), service_complete = 'Yes'
up2068268_cw-# WHERE service_id=3;
UPDATE 1
up2068268_cw=# select * from service_sheet where service_id=3;
 service_id | booking_id | start_date | finish_date | service_complete | service_cost
------------+------------+------------+-------------+------------------+--------------
          3 |          3 | 2022-04-20 | 2022-04-22  | Yes              | £3532
(1 row)
```

2.

```
SELECT boat.boat_name, booking.booking_id, service_sheet.service_complete
FROM boat INNER JOIN booking ON boat.boat_id = booking.booking_id
INNER JOIN service_sheet ON booking.booking_id = service_sheet.service_id
WHERE service_complete='No';
```
This query can tell us which service will have to be completed, in case some staff might have forgotten how many services there are left for the staff to do. This allows us to get the job done on time.

```
 boat_id |       boat_name       | booking_id | service_complete
---------+-----------------------+------------+------------------
       5 | Sailing Dinghy        |          5 | No
       8 | Princess V50          |          8 | No
       9 | Starcraft MDX 211     |          9 | No
      14 | Zodiac Pro 7          |         14 | No
      18 | Honwave T32           |         18 | No
      25 | Seago 230 Go Lite     |         25 | No
      28 | 48 Wallytender X      |         28 | No
      29 | Baja Marine 36 Outlaw |         29 | No
      31 | Fountain 34 Thundercat|         31 | No
      32 | SB20                  |         32 | No
      35 | GP14                  |         35 | No
(11 rows)
```

3.

```sql
SELECT staff.staff_id as "staff id", CONCAT(staff.staff_fname, ' ',
staff.staff_lname) as "staff name",
booking.service_descr as "service description"
FROM staff JOIN role_staff ON role_staff.staff_id = staff.staff_id
JOIN role ON role_staff.role_id = role.role_id
JOIN service ON staff.staff_id = service.staff_id
JOIN service_sheet ON service.service_id = service_sheet.service_id
JOIN booking ON service_sheet.booking_id =booking.booking_id
WHERE role.role_name = 'Electrician';
```

This can help us see how many electricians are working on service during the current time and allow the company to tell the customer whether any service that involves an electrician will be available or not. Sometimes the service might have longer working days than usual for the service to be completed due to short of staff.

```
staff id |    staff name    |                              service description
---------+------------------+------------------------------------------------------------------------------
       5 | Oliver Levy      | Ensure the electric systems work properly.
      33 | Avram Mcfarland  | Gelcoat repair on glass fibre.
       5 | Oliver Levy      | Inspect batteries are clean and dry, also ensure wire casings are ntact and fix if necessary.
      29 | Eleanor Horton   | Rearrange the wires of the battery connection.
      29 | Eleanor Horton   | Gelcoat repair on glass fibre.
(5 rows)
```

4.

```sql
SELECT customer.cust_id, customer.cust_fname, customer.cust_lname,
boat.boat_id, boat.boat_name
FROM boat JOIN customer ON boat.boat_id = customer.cust_id WHERE boat_name
like '%Pr%';
```

This we can search for the name of the boat if we can't remember the boat name.

```
 cust_id | cust_fname | cust_lname | boat_id |  boat_name
---------+------------+------------+---------+-------------
       4 | Ivy        | Hoover     |       4 | Princess V50
       8 | Jarrod     | Robertson  |       8 | Princess V50
      22 | Reed       | Randolph   |      22 | Princess 35
(3 rows)
```

5.

```
SELECT staff.staff_id, role_staff.role_id, role.role_name
FROM staff RIGHT JOIN role_staff ON staff.staff_id = role_staff.staff_id
RIGHT JOIN role ON role_staff.role_id = role.role_id;
```

staff_id	role_id	role_name
1	1	Manager
2	2	Glass Fibre Specialist
3	3	Engine Technician
4	4	General
5	5	Electrician
6	6	Technician
7	6	Technician
8	2	Glass Fibre Specialist
9	3	Engine Technician
10	4	General
11	1	Manager
11	6	Technician
12	4	General
13	5	Electrician
14	3	Engine Technician
14	6	Technician

Since there's so many roles to remember, I have provided this query to let the company see the role name instead of the role id. Some people cannot remember the meaning of the role id on its own.

15	2	Glass Fibre Specialist
16	5	Electrician
17	3	Engine Technician
18	2	Glass Fibre Specialist
19	4	General
20	5	Electrician
21	6	Technician
22	4	General
23	1	Manager
24	2	Glass Fibre Specialist
25	5	Electrician
26	3	Engine Technician
27	3	Engine Technician
28	5	Electrician
29	5	Electrician
29	4	General
30	6	Technician
31	1	Manager

31	3	Engine Technician
32	2	Glass Fibre Specialist
33	5	Electrician
33	4	General
34	6	Technician
35	1	Manager
35	2	Glass Fibre Specialist
36	3	Engine Technician

(43 rows)