Produce the following reports / documents / queries:
(Created Forms and Reports for appropriate queries)

1. Sales/Transaction invoice (report for one sales invoice, user enters sales/transaction number)
    a. Made a report and form for transactions

2. Sale Revenue Report (report that shows how much money was accumulated from all sales).
    a. Query that sums all transactions

```
--Total Revenue
select sum(transaction_price) as total_rev
from transactions

--Employee revenues from a certain time period
select sum(transaction_price) as emp_rev, employee_l_name,
employee_f_name, t.employee_id
from transactions t
join employees e on e.employee_id = t.employee_id
where transaction_date >= '2018-01-01' and transaction_date <='2018-04-01'
group by employee_l_name, employee_f_name, t.employee_id
order by emp_rev desc;
```

3. Service Work Order/Ticket Log (report for one work order user enters work order number)

```
--Resolved with Ticket_log form
--query for form creation

select ticket_id, check_in_date, check_out_date, employee_id_check_in,
employee_id_repair, employee_id_check_out, client_id, client_l_name, client_f_name,
device_id, model_name, serial_number, device_condition, has_charger, repair_notes,
is_member
from ticket_log tl
join clients c on c.client_id = tl.client_id
join devices d on d.device_id = tl.device_id
order by check_in_date
```

4. Purchase order (report for one purchase, user enters purchase order number).

    Transactions Form and Transactions Report created

5. List of all devices that are currently checked in and being repaired.

```
select client_f_name, client_l_name, model_name, serial_number
from client_devices cd
join clients c on c.client_id = cd.client_id
join devices d on d.device_id = cd.device_id
where serial_number in
   (
   Select serial_number from ticket_log
   where employee_id_check_out is NULL
   )
order by client_l_name;
```

6. List of all devices that have been checked out and repaired.
    a. Query

```
select client_f_name, client_l_name,model_name, serial_number,
check_out_date
from ticket_log tl
join clients c on c.client_id = tl.client_id
join devices d on d.device_id = tl.device_id
where check_out_date is NOT NULL
order by check_out_date;
```

7. List of client's total devices (user enters type of service).
    a. Query or report?

```
select client_l_name, client_f_name, cd.device_id, model_name, serial_number
from clients c
join client_devices cd on cd.client_id = c.client_id
join devices d on d.device_id = cd.device_id
order by client_l_name;
```

8. List of all devices being repaired/repaired this month that (user enters month) along with the check-in info (employee that checked it in)
    a. Query

```
select employee_id_check_in, client_f_name, client_l_name, tl.device_id,
model_name, serial_number, device_condition, has_charger, check_in_date,
check_out_date
from ticket_log tl
```

```
join clients c on c.client_id = tl.client_id
join devices d on d.device_id = tl.device_id
where extract(month from check_in_date) = '8'
order by check_in_date;
```

9. list of most popular manufacturers of devices being brought in to repair

```
select manufacturer_name, count(d.manufacturer_id) as num_devices
from  devices d
join manufacturer m on m.manufacturer_id = d.manufacturer_id
where device_id in
   (
   select device_id from client_devices
   where serial_number in
      (
      Select distinct(serial_number) from ticket_log
      )
   )
group by manufacturer_name
order by num_devices desc;
```

10. best “Sales Person” by year (2018)
    ~~i. Highest commissions~~ (Best buy does not work on commissions)
    ii. Largest number of revenue sold

```
--Total Revenue by Emp by year
select sum(transaction_price) as emp_rev, employee_l_name,
employee_f_name, t.employee_id, extract(year from transaction_date) as year
from transactions t
join employees e on e.employee_id = t.employee_id
group by employee_l_name, employee_f_name, t.employee_id, extract(year from
transaction_date)
order by  extract(year from transaction_date);
```

```
--Revenue by Emp (2018)
select sum(transaction_price) as emp_rev, employee_l_name,
employee_f_name, t.employee_id, extract(year from transaction_date) as year
from transactions t
join employees e on e.employee_id = t.employee_id
where extract(year from transaction_date) = '2018'
group by employee_l_name, employee_f_name, t.employee_id, extract(year from
transaction_date)
order by emp_rev desc;
```

```
--Revenue by Emp (2019)
select sum(transaction_price) as emp_rev, employee_l_name,
employee_f_name, t.employee_id, extract(year from transaction_date) as year
from transactions t
join employees e on e.employee_id = t.employee_id
where extract(year from transaction_date) = '2019'
group by employee_l_name, employee_f_name, t.employee_id, extract(year from
transaction_date)
order by emp_rev desc;
```

11. List of customers who have purchased services/memberships from GS this year
    a. Query

```
select client_l_name, client_f_name
from clients
where client_id in
(
        select client_id
        from transactions
        where transaction_price >= 10
        and extract(year from transaction_date) = 2019
);
```

12. A list of all customers who have a membership from Geek squad

```
select client_f_name, client_l_name
from clients
where is_member = 'y';
```

13. List of clients who are not members

```
select client_f_name, client_l_name
from clients
where is_member = 'n';
```

14a. A list of clients who bring in there chargers:

```
select client_f_name, client_l_name
from clients
where client_id in
(
```

```
        select distinct(client_id)
        from ticket_log
        where has_charger = 'y'
);
```

14b. Clients who don’t bring in there chargers.

```
select client_f_name, client_l_name
from clients
where client_id in
(
        select distinct(client_id) from ticket_log
        where has_charger = 'n'
);
```

15. Select avg turn-around time for a certain period of time

```
select round(avg(repair_duration),2) as avg_num_days
from ticket_log
where check_in_date >= '2018-08-01' and check_in_date <= '2018-11-01'
```