

INVOICE:

CREATE VIEW "BillNewer" AS

SELECT

"DateOfVisit" AS "InvDate",

"Report"."RepID",

"ConsultancyCharges",

((("MorningDosage" + "EveningDosage" + "AfternoonDosage") * "Quantity"
* "SellPrice") AS "MedicationCharges",

("ConsultancyCharges" + ((("MorningDosage" + "EveningDosage" +
"AfternoonDosage") * "Quantity" * "CostPrice")) AS "TotalAmount",

"StaffID"

FROM "Report"

JOIN "Prescription" ON "Report"."RepID" = "Prescription"."RepID"

JOIN "Inventory" ON "Prescription"."MedName" = "Inventory"."MedName"
AND "Prescription"."MedName" = "Inventory"."MedName";

SELECT

SUM("ConsultancyCharges")/COUNT(*) AS ConsultancyCharges,

SUM("MedicationCharges") AS MedicationCharges,

(SUM("ConsultancyCharges")/COUNT(*) +
SUM("MedicationCharges")) AS "TotalAmount",

"InvDate",

"RepID"

FROM "BillNewer"

GROUP BY "InvDate", "RepID"

ORDER BY "RepID" ASC;

UPDATION QUERIES:

The receptionist deletes the pending appointment:

```
UPDATE "Appointment" AS A
SET "Status" = 'DONE'
WHERE EXISTS (
    SELECT *
    FROM "Report" AS R
    WHERE A."Date" = R."DateOfVisit"
    AND A."PID" = R."PID"
);
```

```
DELETE FROM "Appointment"
WHERE "Status" = 'PENDING';
```

Inventory stock updation:

```
DO $$
BEGIN
    UPDATE "Inventory" AS i
    SET "QtyAvailable" = CASE
        WHEN ("QtyAvailable" - (
            SELECT (p."MorningDosage" + p."EveningDosage" +
p."AfternoonDosage") * p."Quantity"
            FROM "Prescription" AS p
            WHERE p."MedName" = i."MedName"
```

```

        AND p."RepID" = 10038
    )) > 0 THEN
        "QtyAvailable" - (
            SELECT (p."MorningDosage" + p."EveningDosage" +
p."AfternoonDosage") * p."Quantity"
            FROM "Prescription" AS p
            WHERE p."MedName" = i."MedName"
            AND p."RepID" = 10038
        )
    ELSE
        0
    END

```

```

        WHERE EXISTS (
SELECT 1
FROM "Prescription" AS p
WHERE p."MedName" = i."MedName"
    AND p."RepID" = 10038
);

```

```

INSERT INTO "Inventory" ("MedName", "QtyAvailable", "QtyOrdered",
"BatchNumber", "CostPrice", "SellPrice", "MgfDate", "ExpDate", "StaffID")
SELECT
    p."MedName",
    500,
    500,
    to_char(current_date, 'YYYYMMDD'), --New Batch Number

```

(select "CostPrice" from "Prescription" as pr join "Inventory" as invt on pr."MedName" = invt."MedName" and pr."RepID" = 10038

and invt."QtyAvailable" = 0 order by invt."BatchNumber" DESC Limit 1), --to be taken from console

(select "SellPrice" from "Prescription" as pr join "Inventory" as invt on pr."MedName" = invt."MedName" and pr."RepID" = 10038

and invt."QtyAvailable" = 0 order by invt."BatchNumber" DESC Limit 1),

current_date,

current_date + interval '2 years' AS exp_date,

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FROM "Prescription" AS p

WHERE NOT EXISTS (

SELECT 1

FROM "Inventory" AS i

WHERE i."MedName" = p."MedName" and i."QtyAvailable" <> 0

) AND p."RepID" = 10038;

END \$\$;

PROFITS:

Doctors Profit for a Given Period(Consultancy Charger - Salaries of Employess/4):

SELECT

(SELECT SUM("ConsultancyCharges") FROM "Report") - (SELECT SUM("Salary") FROM "Staff") / 4 AS doctor_profit;

Profits by Selling the Prescriptions to Patients For the Entire Week:

```
SELECT SUM(pres_profit) AS total_pres_profit
FROM (
    SELECT
        (("Inventory"."SellPrice" - "Inventory"."CostPrice") *
        (("Prescription"."MorningDosage" + "Prescription"."AfternoonDosage" +
        "Prescription"."EveningDosage") * "Prescription"."Quantity")) AS pres_profit
    FROM "Prescription"
    JOIN "Report" ON "Prescription"."RepID" = "Report"."RepID"
    JOIN "Inventory" ON "Prescription"."MedName" = "Inventory"."MedName"
) AS PrescriptionProfit;
```

How many patients are there in the database?

```
SELECT COUNT(*) AS "TotalPatients" FROM "Patient";
```

What are the different blood groups represented in the database, and how many patients belong to each blood group?

```
SELECT "BloodGroup", COUNT(*) AS "TotalPatients" FROM "Patient"
GROUP BY "BloodGroup";
```

What are the medical conditions and allergies of patient with PID 1003?

```
SELECT "MedConditions", "Allergies" FROM "MedicalHistory" WHERE
"PID" = 1003;
```

Who is the doctor on duty on 2024-02-01 at 11:00 AM?

```
SELECT S."Name" AS "DoctorName"
FROM "Staff" AS S
INNER JOIN "Appointment" AS A ON S."StaffID" = A."StaffID"
WHERE A."Time" = '11:00:00' AND A."Date" = '2024-02-01' AND S."Type" =
'Clinic Staff' AND S."StaffID" IN (SELECT "StaffID" FROM "ClinicStaff"
WHERE "Role" LIKE '%Doctor%');
```

What is the diagnosis of the report with RepID 10008?

```
SELECT "Diagnosis" FROM "Report" WHERE "RepID" = 10008;
```

How many staff members are working as pharmacy staff?

```
SELECT COUNT(*) AS "TotalPharmacyStaff" FROM "PharmacyStaff";
```

What is the average salary of cleaning staff?

```
SELECT AVG("Salary") AS "AverageSalary" FROM "Staff" WHERE "StaffID"
IN (SELECT "StaffID" FROM "CleaningStaff");
```

Which patient has the highest consultancy charges, and what is the amount?

```
SELECT P."Name" AS "PatientName", R."ConsultancyCharges"
FROM "Patient" AS P
INNER JOIN "Report" AS R ON P."PID" = R."PID"
ORDER BY R."ConsultancyCharges" DESC
LIMIT 1;
```

How many appointments were scheduled for each date?

```
SELECT "Date", COUNT(*) AS "TotalAppointments"
FROM "Appointment"
```

GROUP BY "Date";

Which patient has the most number of medical conditions?

```
SELECT P."Name" AS "PatientName", COUNT(*) AS  
"TotalMedicalConditions"
```

```
FROM "Patient" AS P
```

```
INNER JOIN "MedicalHistory" AS M ON P."PID" = M."PID"
```

```
GROUP BY P."PID"
```

```
ORDER BY "TotalMedicalConditions" DESC
```

```
LIMIT 1;
```