



# ***Hospital Management Insights through Data Analysis***

***Turning hospital data into actionable insights for  
better decision-making***

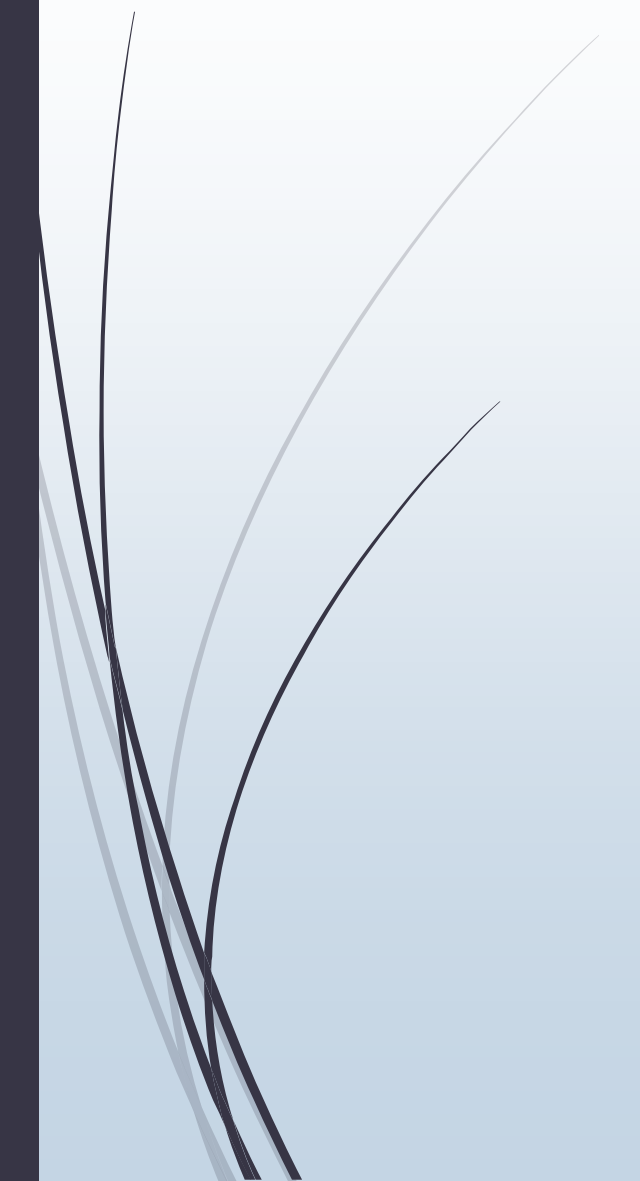

## Explore the Data using Excel. understand the data and prepare a short summary about the dataset.

- **Appointments Sheet:** Logs patient appointments with details such as appointment ID, patient ID, doctor ID, appointment date, visit reason (e.g., therapy, checkup, consultation), appointment status (Scheduled, Completed, Cancelled, No-show), and a no-show indicator.
- **Patients Sheet:** Stores patient demographic information including patient ID, full name, age, gender, address, registration date, and insurance provider.
- **Doctors Sheet:** Contains doctor profiles with doctor ID, full name, specialization (e.g., Dermatology, Pediatrics, Oncology), years of experience, and hospital branch.
- **Treatments Sheet:** Tracks treatments linked to appointments, with fields such as treatment ID, appointment ID, treatment type (e.g., Chemotherapy, MRI, X-Ray), description, cost, and treatment date.
- **Billing Sheet:** Manages billing records, including bill ID, patient ID, treatment ID, bill date, amount, payment method (Insurance, Cash, Credit Card), payment status (Paid, Pending, Failed), and completion status.
- 🖱️ **Collectively,** this dataset provides a holistic perspective of hospital activities, encompassing patient demographics, doctor details, appointment histories, treatment records, and billing transactions. It can be leveraged for healthcare analytics, including insights into appointment trends, patient demographics, doctor workloads, treatment costs, billing and payment behaviors, as well as no-show patterns.



## ***Perform Data cleaning if required and then do Statistical Analysis on data using statistical tools.***

- This project focuses on analyzing hospital operations using datasets related to patients, doctors, appointments, treatments, and billing. Data preparation involved cleaning by removing redundant columns (such as contact details and appointment time) and standardizing name fields into a single Full Name column. Additionally, treatment costs were rounded to whole numbers for consistency. The refined dataset enables valuable insights into appointment patterns, treatment expenses, doctor performance, and billing/payment trends, supporting informed decision-making and enhancing healthcare efficiency.



**Insert the given data into the SQL  
server by making a Database  
and defining the required parameters  
for the construction of  
Database and Database tables.**

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

company

healthcare

Tables

appointments\_sheet

Columns

Indexes

Foreign Keys

Administration Schemas

Information

Table: appointments\_sheet

Columns:

appointment\_id

patient\_id

doctor\_id

appointment\_date

reason\_for\_visit

status

No Shows

MyUnknownColumn

MyUnknownColumn\_0

1 • CREATE DATABASE healthcare;

2 • USE healthcare;

3

4 • SELECT \* FROM appointments\_sheet;

Result Grid

Filter Rows:

Exports

Wrap Cell Contents:

	appointment_id	patient_id	doctor_id	appointment_date	reason_for_visit	status	No Shows	MyUnknownColumn	MyUnknownColumn_0
▶	A001	P034	D009	09-08-2023	Therapy	Scheduled	No		
	A002	P032	D004	09-06-2023	Therapy	No-show	Yes		
	A003	P048	D004	28-06-2023	Consultation	Cancelled	Yes		
	A004	P025	D006	01-09-2023	Consultation	Cancelled	Yes		
	A005	P040	D003	06-07-2023	Emergency	No-show	Yes		
	A006	P045	D006	19-06-2023	Checkup	Scheduled	No		
	A007	P001	D007	09-04-2023	Consultation	Scheduled	No		

Result Grid

Form Editor

Read Only Context

Output

Action Output

#	Time	Action	Message
1	22:31:22	USE healthcare	0 row(s) affected
2	22:38:10	SELECT * FROM appointments_sheet LIMIT 0, 1000	200 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

Edit View Query Database Server Tools Scripting Help



Navigator e\_blinkitdata Sports\_project Sales\_Project Practice\_joins HealthCare project\* Western\_Countries\_Financial\_P... billing\_sheet SQLAddition

HEMAS

Filter objects

- ▼ appointments\_shee
- Columns
- Indexes
- Foreign Keys
- Triggers
- ▼ billing\_sheet
- Columns

Administration Schemas

Information

Table: billing\_sheet

Columns:

bill\_id text  
patient\_id text  
treatment\_id text  
bill\_date text  
amount int  
payment\_method text  
payment\_status text  
payment text

Limit to 1000 rows

5  
6  
7  
8  
9  
10 • SELECT \* FROM billing\_sheet;

Result Grid Filter Rows Exports Wrap Cell Content:

	bill_id	patient_id	treatment_id	bill_date	amount	payment_method	payment_status	payment
►	B001	P034	T001	09-08-2023	3942	Insurance	Pending	Not Done
	B002	P032	T002	09-06-2023	4158	Insurance	Paid	Done
	B003	P048	T003	28-06-2023	3732	Insurance	Paid	Done
	B004	P025	T004	01-09-2023	4800	Insurance	Failed	Not Done
	B005	P040	T005	06-07-2023	582	Credit Card	Pending	Not Done
	B006	P045	T006	19-06-2023	1381	Insurance	Pending	Not Done
	B007	P001	T007	09-04-2023	534	Cash	Failed	Not Done
	B008	P016	T008	24-05-2023	3414	Cash	Failed	Not Done
	B009	P030	T009	05-03-2023	4541	Credit Card	Paid	Done

billing\_sheet 2 x

Output

Action Output

#	Time	Action	Message
3	22:41:24	SELECT * FROM healthcare.billing_sheet LIMIT 0, 1000	200 row(s) returned
4	22:42:15	SELECT * FROM billing_sheet LIMIT 0, 1000	200 row(s) returned

Object Info Session

Automatically disabled manual current toggle

Result Grid

Form Editor

Read Only Context Help



MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

payment

Indexes

Foreign Keys

Triggers

doctors\_sheet

patients\_sheet

Administration Schemas

Information

Table: doctors\_sheet

Columns:

doctor\_id text

Full name text

specialization text

years\_experience int

hospital\_branch text

10 • `SELECT * FROM doctors_sheet;`

Result Grid

	doctor_id	Full name	specialization	years_experience	hospital_branch
▶	D001	David Taylor	Dermatology	17	Westside Clinic
	D002	Jane Davis	Pediatrics	24	Eastside Clinic
	D003	Jane Smith	Pediatrics	19	Eastside Clinic
	D004	David Jones	Pediatrics	28	Central Hospital
	D005	Sarah Taylor	Dermatology	26	Central Hospital
	D006	Alex Davis	Pediatrics	23	Central Hospital
	D007	Robert Davis	Oncology	26	Westside Clinic
	D008	Linda Brown	Dermatology	5	Westside Clinic
	D009	Frank Smith	Pediatrics	26	Central Hospital

doctors\_sheet 3 x

Output

Action Output

#	Time	Action	Message
✓ 5	22:43:52	SELECT * FROM healthcare.doctors_sheet LIMIT 0, 1000	10 row(s) returned
✓ 6	22:44:13	SELECT * FROM doctors_sheet LIMIT 0, 1000	10 row(s) returned

Object Info Session

Read Only Context

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

- Indexes
- Foreign Keys
- Triggers
- doctors\_sheet
- patients\_sheet
- treatments\_sheet

Administration Schemas

Information

Table: patients\_sheet

Columns:

- patient\_id text
- Full name text
- gender text
- Age int
- address text
- registration\_date text
- insurance\_provider text

Result Grid

patient_id	Full name	gender	Age	address	registration_date	insurance_provider
P001	David Williams	F	70	Pine Rd	23-06-2022	WellnessCorp
P002	Emily Smith	F	40	Maple Dr	15-01-2022	WellnessCorp
P003	Laura Jones	M	47	Maple Dr	07-02-2022	PulseSecure
P004	Michael Johnson	F	44	Elm St	02-03-2021	HealthIndia
P005	David Wilson	M	65	Elm St	29-09-2021	MedCare Plus
P006	Linda Jones	M	62	Maple Dr	02-10-2022	HealthIndia
P007	Alex Johnson	F	36	Pine Rd	25-12-2021	MedCare Plus
P008	David Davis	F	49	Oak Ave	25-05-2021	WellnessCorp

patients\_sheet 4 x

Output

Action Output

#	Time	Action	Message
7	22:45:00	SELECT * FROM healthcare.patients_sheet LIMIT 0, 1000	50 row(s) returned
8	22:45:19	SELECT * FROM patients_sheet LIMIT 0, 1000	50 row(s) returned



MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- Indexes
- Foreign Keys
- Triggers
- doctors\_sheet
- patients\_sheet
- treatments\_sheet

Administration Schemas

Information

Table: treatments\_sheet

Columns:

- treatment\_id
- appointment\_id
- treatment\_type
- description
- cost
- treatment\_date
- MyUnknownColumn
- MyUnknownColumn\_0

ports\_project Sales\_Project Practice\_joins HealthCare project\* x Western\_Countries\_Financial\_P\_ patients\_sheet treatments\_sh

Limit to 1000 rows

5

6

7

8

9

10 • SELECT \* FROM treatments\_sheet;

Result Grid

	treatment_id	appointment_id	treatment_type	description	cost	treatment_date	MyUnknownColumn	MyUnknownColumn_0
▶	T001	A001	Chemotherapy	Basic screening	3942	09-08-2023		
	T002	A002	MRI	Advanced protocol	4158	09-06-2023		
	T003	A003	MRI	Standard procedure	3732	28-06-2023		
	T004	A004	MRI	Basic screening	4800	01-09-2023		
	T005	A005	ECG	Standard procedure	582	06-07-2023		
	T006	A006	Chemotherapy	Standard procedure	1381	19-06-2023		
	T007	A007	Chemotherapy	Advanced protocol	534	09-04-2023		
	T008	A008	Chemotherapy	Basic screening	3414	24-05-2023		

Result Grid

Form Editor

treatments\_sheet 5 x

Output

Action Output

#	Time	Action	Message
9	22:45:48	SELECT * FROM healthcare.treatments_sheet LIMIT 0, 1000	200 row(s) returned
10	22:46:03	SELECT * FROM treatments_sheet LIMIT 0, 1000	200 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

```
16 |
17 • ALTER TABLE appointments_sheet
18   RENAME COLUMN `i»¿appointment_id` TO appointment_id;
19 |
20 • ALTER TABLE billing_sheet
21   RENAME COLUMN `i»¿bill_id` TO bill_id;
22 |
23 • ALTER TABLE doctors_sheet
24   RENAME COLUMN `i»¿doctor_id` TO doctor_id;
25 |
26 • ALTER TABLE patients_sheet
27   RENAME COLUMN `i»¿patient_id` TO patient_id;
28 |
29 • ALTER TABLE treatments_sheet
30   RENAME COLUMN `i»¿treatment_id` TO treatment_id;
```

Limit to 1000 rows

Output

Action Output

#	Time	Action	Message
✓ 24	23:04:38	SELECT MONTH(STR_TO_DATE(appointment_date, '%Y-%m-%d')) AS month, sum...	1 row(s) returned
✓ 25	23:11:17	SELECT t.treatment_id, SUM(b.amount) AS total_revenue FROM billing_sheet b JOI...	1 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

Edit View Query Database Server Tools Scripting Help

Navigator

HEMAS

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet

Views

Stored Procedures

Administration Schemas

Information

Table: **billing\_sheet**

Columns:

- bill\_id text
- patient\_id text
- treatment\_id text
- bill\_date text
- amount int
- payment\_method text
- payment\_status text
- payment text

Result Grid

total\_registered\_patients

50

Result 20 x

Read Only Context Help

Output

Action Output

#	Time	Action	Message
✓ 26	23:21:57	SELECT COUNT(patient_id) AS total_registered_patients FROM patients_sheet LI...	1 row(s) returned
✓ 27	23:22:03	SELECT COUNT(patient_id) AS total_registered_patients FROM patients_sheet LI...	1 row(s) returned

Project Info Session

SQLAdditions

Automatically disabled manual current toggle

Limit to 1000 rows

Q1. How many patients are registered in the hospital?

```
SELECT COUNT( patient_id) AS total_registered_patients
FROM patients_sheet;
```

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

37

38

39

40 – Q2. How many doctors are working in the hospital?

41

42 • **SELECT COUNT( doctor\_id) AS total\_doctors**

43 **FROM doctors\_sheet;**

Result Grid

	total_doctors
▶	10

Result 21 x Read Only Context

Output

Action Output

#	Time	Action	Message
✓ 27	23:22:03	SELECT COUNT( patient_id) AS total_registered_patients FROM patients_sheet LI...	1 row(s) returned
✓ 28	23:23:21	SELECT COUNT( doctor_id) AS total_doctors FROM doctors_sheet LIMIT 0, 1000	1 row(s) returned

Object Info Session



# SQL Workbench

Free! x

Edit View Query Database Server Tools Scripting Help

practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project x SQLAdditions

Limit to 1000 rows

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet

Views

Stored Procedures

Administration Schemas

Information

table: **billing\_sheet**

columns:

- bill\_id text
- patient\_id text
- treatment\_id text
- bill\_date text
- amount int
- payment\_method text
- payment\_status text
- payment text

40

41

42

43 -- Q3. What is the total number of appointments?

44

45 • **SELECT COUNT( appointment\_id) AS total\_appointments**

46 **FROM appointments\_sheet;**

Result Grid

	total_appointments
1	200

Result 22 x Read Only Context Help

Output

Action Output

#	Time	Action	Message
28	23:23:21	SELECT COUNT( doctor_id) AS total_doctors FROM doctors_sheet LIMIT 0, 1000	1 row(s) returned
29	23:25:00	SELECT COUNT( appointment_id) AS total_appointments FROM appointments_she...	1 row(s) returned

ct info Session

Automatic disabled. manually current c toggle



ch

Query Database Server Tools Scripting Help

practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project

Limit to 1000 rows

45  
46  
47  
48 -- Q4. How many appointments were completed, cancelled, or no-show?  
49  
50 • **SELECT status, COUNT(\*) AS total\_count**  
51 **FROM appointments\_sheet**  
52 **GROUP BY status;**

Automatic content disabled. Use the manually get help current caret position toggle automatic

Result Grid

status	total_count
Scheduled	51
No-show	52
Cancelled	51
Completed	46

Result 23 x

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration /
29	23:25:00	SELECT COUNT( appointment_id) AS total_appointments FROM appointments_she...	1 row(s) returned	0.000 sec /
30	23:25:50	SELECT status, COUNT(*) AS total_count FROM appointments_sheet GROUP BY s...	4 row(s) returned	0.000 sec /

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet

Views

Stored Procedures

Administration Schemas

Information

Table: billing\_sheet

Columns:

- bill\_id text
- patient\_id text
- treatment\_id text
- bill\_date text
- amount int
- payment\_method text
- payment\_status text
- payment text

practice\_blinkindata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project

Limit to 1000 rows

SQL Additions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Q5. What is the gender distribution of patients?

```
SELECT gender, COUNT(*) AS total_count
FROM patients_sheet
GROUP BY gender;
```

Result Grid

gender	total_count
F	19
M	31

Result 24

Output

Action Output

#	Time	Action	Message	Duration / Fetch
30	23:25:50	SELECT status, COUNT(*) AS total_count FROM appointments_sheet GROUP BY s...	4 row(s) returned	0.000 sec / 0.000 sec
31	23:27:55	SELECT gender, COUNT(*) AS total_count FROM patients_sheet GROUP BY gend...	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

61  
62  
63  
64  
65 -- Q6. What is the average patient age?  
66  
67 • **SELECT ROUND(AVG(age),0) AS Avg\_age**  
68 **FROM patients\_sheet;**  
69

**Result Grid** Filter Rows: Exports Wrap Cell Contents

Avg_age
45

**Result 25** x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 31	23:27:55	SELECT gender, COUNT(*) AS total_count FROM patients_sheet GROUP BY gender	2 row(s) returned
✓ 32	23:29:58	SELECT ROUND(AVG(age),0) AS Avg_age FROM patients_sheet LIMIT 0, 1000	1 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

65

66

67 -- Q7. Which payment methods are most commonly used?

68

69 • **SELECT** payment\_method, COUNT(\*) **AS** total\_count

70 **FROM** billing\_sheet

71 **GROUP BY** payment\_method

72 **ORDER BY** total\_count **DESC**;

73

**Result Grid** Filter Rows: Exports Wrap Cell Contents

	payment_method	total_count
▶	Credit Card	75
	Insurance	64
	Cash	61

**Result 26** x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 32	23:29:58	SELECT ROUND(AVG(age),0) AS Avg_age FROM patients_sheet LIMIT 0, 1000	1 row(s) returned
✓ 33	23:31:12	SELECT payment_method, COUNT(*) AS total_count FROM billing_sheet GROUP ...	3 row(s) returned

Object Info Session



SQL Workbench

Preeti x

File View Query Database Server Tools Scripting Help

practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project

objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet

Views

Stored Procedures

tration Schemas

ion

ie: billing\_sheet

Columns:

- l\_id text
- atient\_id text
- eatment\_id text
- l\_date text
- nount int
- yment\_method text
- yment\_status text
- yment text

71

72

73

74 -- Q8. What is the total revenue generated (Paid bills only)?

75

76 • `SELECT SUM(amount) AS total_revenue`

77 `FROM billing_sheet`

78 `WHERE payment_status = 'Paid';`

79

80

Result Grid

total_revenue
173423

Filter Rows: | Export: | Wrap Cell Contents: |

Result Grid

Healthcare\_dataset.pptx - PowerPoint

Read Only Context Help

Output

Action Output

#	Time	Action	Message
33	23:31:12	SELECT payment_method, COUNT(*) AS total_count FROM billing_sheet GROUP ...	3 row(s) returned
34	23:32:59	SELECT SUM(amount) AS total_revenue FROM billing_sheet WHERE payment_sta...	1 row(s) returned

info Session



SQL Workbench

Preeti x

File View Query Database Server Tools Scripting Help

practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project

objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet

Views

Stored Procedures

iteration Schemas

le: billing\_sheet

Columns:

- il\_id text
- atient\_id text
- eatment\_id text
- il\_date text
- nount int
- ayment\_method text
- ayment\_status text
- ayment text

78

79

80

81 -- Q9. How many bills are pending vs completed vs failed?

82

83 • SELECT payment\_status, COUNT(\*) AS total\_count

84 FROM billing\_sheet

85 GROUP BY payment\_status;

86

Result Grid

	payment_status	total_count
▶	Pending	69
	Paid	64
	Failed	67

Filter Rows: Exports Wrap Cell Contents

Result 28 x Patient count methods - Google Chrome

Read Only Context Help

Output

Action Output

#	Time	Action	Message
✓ 34	23:32:59	SELECT SUM(amount) AS total_revenue FROM billing_sheet WHERE payment_sta...	1 row(s) returned
✓ 35	23:34:01	SELECT payment_status, COUNT(*) AS total_count FROM billing_sheet GROUP B...	3 row(s) returned

info Session

Automatic disabled. U manually current can toggle a

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

85

86

87 -- Q10. What is the average cost of treatments?

88

89 • **SELECT treatment\_type, ROUND(AVG(cost),2) AS Avg\_cost**

90 **FROM treatments\_sheet**

91 **GROUP BY treatment\_type**

92 **ORDER BY Avg\_cost DESC;**

93

**Result Grid** Filter Rows: Exports Wrap Cell Contents

	treatment_type	Avg_cost
▶	MRI	3224.94
	Physiotherapy	2761.61
	X-Ray	2698.83
	Chemotherapy	2629.67
	ECG	2532.18

Result 29 x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 35	23:34:01	SELECT payment_status, COUNT(*) AS total_count FROM billing_sheet GROUP B...	3 row(s) returned
✓ 36	23:35:27	SELECT treatment_type, ROUND(AVG(cost),2) AS Avg_cost FROM treatments_sh...	5 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

Table: **billing\_sheet**

Columns:

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\*

Limit to 1000 rows

```
91
92 -- Q11. Which doctor handled the most appointments?
93
94 • SELECT d.'Full name', d.doctor_id, COUNT(a. appointment_id) AS Total_appointment
95 FROM appointments_sheet a
96 JOIN doctors_sheet d
97 ON a.doctor_id = d.doctor_id
98 GROUP BY d.'Full name', d.doctor_id
99 ORDER BY Total_appointment DESC
100 LIMIT 1;
101
102
103
104
105
```

Output

Action Output

#	Time	Action	Message
✓ 35	23:34:01	SELECT payment_status, COUNT(*) AS total_count FROM billing_sheet GROUP B...	3 row(s) returned
✓ 36	23:35:27	SELECT treatment_type, ROUND(AVG(cost),2) AS Avg_cost FROM treatments_sh...	5 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

106

107 -- Q12. How many patients visited each doctor?

108

109 • `SELECT d.'Full name', d.doctor_id, COUNT(DISTINCT a. patient_id) AS Total_patients`

110 `FROM appointments_sheet a`

111 `JOIN doctors_sheet d`

112 `ON a.doctor_id = d.doctor_id`

113 `GROUP BY d.'Full name', d.doctor_id`

114 `ORDER BY Total_patients DESC;`

115

**Result Grid** Filter Rows: Exports Wrap Cell Contents

	Full name	doctor_id	Total_patients
▶	Sarah Taylor	D005	23
	David Taylor	D001	20
	Alex Davis	D006	19
	Jane Smith	D003	18
	Jane Davis	D002	17

Result 30 x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 36	23:35:27	SELECT treatment_type, ROUND(AVG(cost),2) AS Avg_cost FROM treatments_sh...	5 row(s) returned
✓ 37	23:36:53	SELECT d.'Full name', d.doctor_id, COUNT(DISTINCT a. patient_id) AS Total_patie...	10 row(s) returned

Object Info Session



MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

111 -- Q13. What is the monthly trend of appointments?

112

113 • **SELECT**

114     **MONTH**(STR\_TO\_DATE(appointment\_date, '%Y-%m-%d')) **AS** month,

115     **COUNT**(\*) **AS** total\_appointments

116 **FROM** appointments\_sheet

117 **WHERE** appointment\_date **IS** NOT NULL

118 **GROUP BY** month

119 **ORDER BY** month;

120

**Result Grid** Filter Rows: Exports Wrap Cell Contents

	month	total_appointments
▶	1	20
	2	14
	3	19
	4	25
	5	19

Result 31 x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 37	23:36:53	SELECT d.'Full name', d.doctor_id, COUNT(DISTINCT a.patient_id) AS Total_patie...	10 row(s) returned
✓ 38	23:38:02	SELECT MONTH(STR_TO_DATE(appointment_date, '%Y-%m-%d')) AS month, ...	12 row(s) returned

Object Info Session



MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator

practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project

SCHEMAS

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

Table: billing\_sheet

Columns:

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

121

122

123 - Q14. What is the average treatment cost by treatment type?

124

125 • SELECT treatment\_type, ROUND(AVG(cost),2) AS Avg\_cost

126 FROM treatments\_sheet

127 GROUP BY treatment\_type

128 ORDER BY Avg\_cost DESC;

129

130

Result Grid

	treatment_type	Avg_cost
▶	MRI	3224.94
	Physiotherapy	2761.61
	X-Ray	2698.83
	Chemotherapy	2629.67
	ECG	2532.18

Result 32 x

Read Only Context Help

Output

Action Output

#	Time	Action	Message
✓ 38	23:38:02	SELECT MONTH(STR_TO_DATE(appointment_date, '%Y-%m-%d')) AS month, ...	12 row(s) returned
✓ 39	23:39:14	SELECT treatment_type, ROUND(AVG(cost),2) AS Avg_cost FROM treatments_she...	5 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

126 |

127 |

128 -- Q15. Which hospital branch has the most doctors?

129 |

130 • **SELECT** hospital\_branch, COUNT(\*) AS Total\_doctors

131 **FROM** doctors\_sheet

132 **GROUP BY** hospital\_branch

133 **ORDER BY** Total\_doctors **DESC**;

134 |

**Result Grid** Filter Rows: Exports Wrap Cell Contents

	hospital_branch	Total_doctors
▶	Central Hospital	4
	Westside Clinic	3
	Eastside Clinic	3

**Result 33** x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 39	23:39:14	SELECT treatment_type, ROUND(AVG(cost),2) AS Avg_cost FROM treatments_she...	5 row(s) returned
✓ 40	23:40:10	SELECT hospital_branch, COUNT(*) AS Total_doctors FROM doctors_sheet GROU...	3 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

Edit View Query Database Server Tools Scripting Help

Navigator: b practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project SQLAdditions

Filter objects

- EMAS
  - billing\_sheet
  - doctors\_sheet
  - patients\_sheet
  - student
  - treatments\_sheet
  - Views
  - Stored Procedures

Administration Schemas

Table: billing\_sheet

Columns:

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

Limit to 1000 rows

— Q16. How many appointments did each specialization handle?

```
SELECT d.specialization, COUNT(a.appointment_id) AS Total_appointments
FROM appointments_sheet a
JOIN doctors_sheet d
ON a.doctor_id = d.doctor_id
GROUP BY d.specialization
ORDER BY Total_appointments DESC;
```

Result Grid

	specialization	Total_appointments
▶	Pediatrics	98
	Dermatology	70
	Oncology	32

Result 34 x Read Only Context Help

Output

Action Output

#	Time	Action	Message
✓ 40	23:40:10	SELECT hospital_branch, COUNT(*) AS Total_doctors FROM doctors_sheet GROU...	3 row(s) returned
✓ 41	23:41:59	SELECT d.specialization, COUNT(a.appointment_id) AS Total_appointments FROM...	3 row(s) returned

Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

145

146

147 -- Q17: Which treatment type was performed the most?

148

149 • **SELECT** treatment\_type, COUNT(\*) AS treatment\_count

150 **FROM** treatments\_sheet

151 **GROUP BY** treatment\_type

152 **ORDER BY** treatment\_count DESC

153 **LIMIT** 1;

154

**Result Grid** Filter Rows: Exports Wrap Cell Contents Fetch rows: Result Grid

	treatment_type	treatment_count
▶	Chemotherapy	49

Result 35 x Read Only Context

Output

Action Output

#	Time	Action	Message
✓ 41	23:41:59	SELECT d.specialization, COUNT(a.appointment_id) AS Total_appointments FROM...	3 row(s) returned
✓ 42	23:43:14	SELECT treatment_type, COUNT(*) AS treatment_count FROM treatments_sheet G...	1 row(s) returned

Object Info Session



MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

153

154

155 – Q18. How many patients visited multiple times?

156

157 • `SELECT 'Full Name',COUNT(patient_id) as total_Visit`

158 `FROM patients_sheet`

159 `GROUP BY 'Full Name'`

160 `ORDER BY total_visit DESC`

161 `LIMIT 10;`

162

**Result Grid** Filter Rows: Exports Wrap Cell Contents Fetch rows:

	Full Name	total_Visit
▶	Michael Taylor	3
	Michael Wilson	3
	Jane Moore	2
	Laura Wilson	2
	Laura Davis	2

Result 36 x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 42	23:43:14	SELECT treatment_type, COUNT(*) AS treatment_count FROM treatments_sheet G...	1 row(s) returned
✓ 43	23:45:05	SELECT 'Full Name',COUNT(patient_id) as total_Visit FROM patients_sheet GROU...	10 row(s) returned

Object Info Session



MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

165 |

166 -- Q19. Which city/branch has the highest number of patients?

167

168 • **SELECT** d.hospital\_branch, COUNT(a.patient\_id) **AS** patient\_count

169 **FROM** appointments\_sheet a

170 **JOIN** doctors\_sheet d

171 **ON** a.doctor\_id = d.doctor\_id

172 **GROUP BY** d.hospital\_branch

173 **ORDER BY** patient\_count **DESC**;

174

**Result Grid** Filter Rows: Exports Wrap Cell Contents

	hospital_branch	patient_count
▶	Central Hospital	84
	Eastside Clinic	62
	Westside Clinic	54

**Result 37** x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 43	23:45:05	SELECT 'Full Name', COUNT(patient_id) as total_Visit FROM patients_sheet GROU...	10 row(s) returned
✓ 44	23:47:05	SELECT d.hospital_branch, COUNT(a.patient_id) AS patient_count FROM appointm...	3 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

171

172

173 – Q20: What is the revenue generated by each payment method?

174

175 • **SELECT** payment\_method, SUM(amount) **AS** total\_revenue

176 **FROM** billing\_sheet

177 **GROUP BY** payment\_method

178 **ORDER BY** total\_revenue **DESC**;

179

180

**Result Grid** Filter Rows: Exports Wrap Cell Contents

	payment_method	total_revenue
▶	Credit Card	201381
	Insurance	182156
	Cash	167708

**Result 38** x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 44	23:47:05	SELECT d.hospital_branch, COUNT(a.patient_id) AS patient_count FROM appointm...	3 row(s) returned
✓ 45	23:47:39	SELECT payment_method, SUM(amount) AS total_revenue FROM billing_sheet GR...	3 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

177 |

178 -- Q21. Who are the top 5 patients by total spending?

179

180 • **SELECT** 'Full name',SUM(amount) **as** Total\_Amount

181 **FROM** patients\_sheet

182 **JOIN** billing\_sheet

183 **ON** patients\_sheet.patient\_id=billing\_sheet.patient\_id

184 **GROUP BY** 'Full name'

185 **ORDER BY** Total\_Amount **DE SC**

186 **LIMIT** 5;

**Result Grid** Filter Rows: Exports Wrap Cell Contents Fetch rows: Result Grid

	Full name	Total_Amount
▶	Michael Taylor	48928
	Michael Wilson	43193
	Laura Davis	40609
	David Wilson	37018
	David Moore	23555

Result 39 x Read Only Context

Output

Action Output

#	Time	Action	Message
✓ 45	23:47:39	SELECT payment_method, SUM(amount) AS total_revenue FROM billing_sheet GR...	3 row(s) returned
✓ 46	23:48:23	SELECT 'Full name',SUM(amount) as Total_Amount FROM patients_sheet JOIN bill...	5 row(s) returned

Object Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

191 -- Q22. Which doctor generated the highest revenue?

192

193 **SELECT** d.'Full name' AS doctor\_name, SUM(b.amount) AS total\_revenue

194 **FROM** doctors\_sheet d

195 **JOIN** appointments\_sheet a

196 **ON** d.doctor\_id = a.doctor\_id

197 **JOIN** billing\_sheet b

198 **ON** a.patient\_id = b.patient\_id

199 **WHERE** b.payment\_status = 'Paid'

200 **GROUP BY** d.'Full name'

201 **ORDER BY** total\_revenue DESC

202 **LIMIT** 1;

**Result Grid** Filter Rows: Exports Wrap Cell Contents Fetch rows:

doctor_name	total_revenue
Sarah Taylor	149202

**Result 41** x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 47	23:49:40	SELECT d.'Full name' AS doctor_name, SUM(b.amount) AS total_revenue FROM d...	1 row(s) returned
✓ 48	23:50:13	SELECT d.'Full name' AS doctor_name, SUM(b.amount) AS total_revenue FROM d...	1 row(s) returned

Object Info Session



MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

202 -- Q23. Which doctor-specialization combination contributes the most revenue?

203

204 SELECT d.'Full name' AS doctor\_name, d.specialization, SUM(b.amount) AS total\_revenue

205 FROM billing\_sheet b

206 JOIN appointments\_sheet a

207 ON b.patient\_id = a.patient\_id

208 JOIN doctors\_sheet d

209 ON a.doctor\_id = d.doctor\_id

210 WHERE b.payment\_status = 'Paid'

211 GROUP BY d.'Full name', d.specialization

212 ORDER BY total\_revenue DESC

213 LIMIT 1;

**Result Grid** Filter Rows: Exports Wrap Cell Contents Fetch rows: Result Grid

doctor_name	specialization	total_revenue
Sarah Taylor	Dermatology	149202

Result 42 x Read Only Context

Output

Action Output

#	Time	Action	Message
✓ 48	23:50:13	SELECT d.'Full name' AS doctor_name, SUM(b.amount) AS total_revenue FROM d...	1 row(s) returned
✓ 49	23:51:12	SELECT d.'Full name' AS doctor_name, d.specialization, SUM(b.amount) AS total_r...	1 row(s) returned

Start Info Session

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

215 -- Q24. Which branch contributes the highest overall revenue?

216

217 **SELECT** d.hospital\_branch, SUM(b.amount) **AS** total\_revenue

218 **FROM** billing\_sheet b

219 **JOIN** appointments\_sheet a

220 **ON** b.patient\_id = a.patient\_id

221 **JOIN** doctors\_sheet d

222 **ON** a.doctor\_id = d.doctor\_id

223 **WHERE** b.payment\_status = Paid

224 **GROUP BY** d.hospital\_branch

225 **ORDER BY** total\_revenue **DESC**

226 **LIMIT 1;**

**Result Grid** Filter Rows: Exports Wrap Cell Contents Fetch rows:

hospital_branch	total_revenue
Central Hospital	424527

**Result 43** x Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 49	23:51:12	SELECT d.'Full name' AS doctor_name, d.specialization, SUM(b.amount) AS total_r...	1 row(s) returned
✓ 50	23:52:18	SELECT d.hospital_branch, SUM(b.amount) AS total_revenue FROM billing_sheet b...	1 row(s) returned

Object Info Session

SQL Workbench

Preli x

Edit View Query Database Server Tools Scripting Help



Editor

b practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P\_ HealthCare project x

SQLAdditions

MAS

Database objects

billing\_sheet  
doctors\_sheet  
patients\_sheet  
student  
treatments\_sheet

Views

Stored Procedures

Administration Schemas

Connection: ...

Table: billing\_sheet

Columns:

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

230

231 -- Q25. What is the average revenue per patient?

232

233 • SELECT p."Full Name", ROUND(AVG(amount),2) AS Avg\_revenue

234 FROM patients\_sheet p

235 JOIN billing\_sheet b

236 ON p.patient\_id = b.patient\_id

237 GROUP BY p."Full Name"

238 ORDER BY Avg\_revenue

239

Result Grid

Filter Rows:

Exports:

Wrap Cell Contents

	Full Name	Avg_revenue
▶	Linda Moore	868.50
	Linda Brown	1649.00
	John Taylor	1747.67
	David Davis	1818.50
	Emily Moore	1863.00

Result 44 x

Result Grid

Read Only

Context Help

Output

Action Output

#	Time	Action	Message
✓ 50	23:52:18	SELECT d.hospital_branch, SUM(b.amount) AS total_revenue FROM billing_sheet b...	1 row(s) returned
✓ 51	23:53:42	SELECT p."Full Name", ROUND(AVG(amount),2) AS Avg_revenue FROM patients_...	37 row(s) returned

Info

Session

Automat  
disabled.  
manually  
current c  
toggle

MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

237

238 -- Q26. Which month had the highest revenue?

239

240 SELECT

241 MONTH(STR\_TO\_DATE(appointment\_date, '%Y-%m-%d')) AS month,

242 sum(amount) AS total\_Revenue

243 FROM appointments\_sheet a

244 join billing\_sheet b

245 on a.patient\_id = b.patient\_id

246 GROUP BY month

247 ORDER BY month DESC

248 limit 1

**Result Grid** Filter Rows: Exports Wrap Cell Contents Fetch rows: Result Grid

	month	total_Revenue
▶	12	184863

Result 45 x Read Only Context

Output

Action Output

#	Time	Action	Message
✓ 51	23:53:42	SELECT p. Full Name", ROUND(AVG(amount),2) AS Avg_revenue FROM patients_...	37 row(s) returned
✓ 52	23:55:02	SELECT MONTH(STR_TO_DATE(appointment_date, '%Y-%m-%d')) AS month, sum...	1 row(s) returned

Object Info Session



MySQL Workbench

Preeti x

File Edit View Query Database Server Tools Scripting Help

Navigator practice\_blinkitdata Sports\_project Sales\_Project Practice\_joins Western\_Countries\_Financial\_P... HealthCare project\* x SQLAdd

**SCHEMAS**

Filter objects

- billing\_sheet
- doctors\_sheet
- patients\_sheet
- student
- treatments\_sheet
- Views
- Stored Procedures

Administration Schemas

Information

**Table: billing\_sheet**

**Columns:**

bill_id	text
patient_id	text
treatment_id	text
bill_date	text
amount	int
payment_method	text
payment_status	text
payment	text

251 |

252 -- Q27. Which treatment type generated the most revenue?

253

254 • **SELECT t.treatment\_id, SUM(b.amount) AS total\_revenue**

255 **FROM billing\_sheet b**

256 **JOIN treatments\_sheet t**

257 **ON b.treatment\_id = t.treatment\_id**

258 **GROUP BY t.treatment\_id**

259 **ORDER BY total\_revenue DESC**

260 **LIMIT 1;**

261

**Result Grid** Filter Rows: Exports Wrap Cell Contents Fetch rows: Result Grid

	treatment_id	total_revenue
▶	T108	4974

**Result 46 x** Read Only Context

**Output**

Action Output

#	Time	Action	Message
✓ 52	23:55:02	SELECT MONTH(STR_TO_DATE(appointment_date, '%Y-%m-%d')) AS month, sum...	1 row(s) returned
✓ 53	23:55:38	SELECT t.treatment_id, SUM(b.amount) AS total_revenue FROM billing_sheet b JOI...	1 row(s) returned

Object Info Session

Healthcare Analysis Dashboard • Last saved: Today at 10:53 PM

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appointment\_id

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doctor\_id

Hosp\_branch

No Shows

patient\_id

reason\_for\_visit

status

address

Age

appointment\_id

doctor\_id

Full name

gender

insurance\_provider

patient\_id

registration\_date

doctor\_id

Full name

hospital\_branch

specialization

years\_experience

appointment\_id

cost

description

doctor\_name

patient\_id

treatment\_date

treatment\_id

treatment\_time

amount

bill\_date

bill\_id

Column10

doctor\_id

patient\_id

payment

payment\_method

payment\_status

Import the Data into PowerBI ,verify if the data is properly imported or not.



**Create a Visually pleasing Dashboard  
report by following the rules  
of making the Dashboard.**



## HEALTHCARE ANALYSIS DASHBOARD- EXECUTIVE OVERVIEW

Total  
Appointments

200

Completed  
Appointments

46

No-Show  
Appointments

52

Total Revenue

551K

Paid Revenue

173K

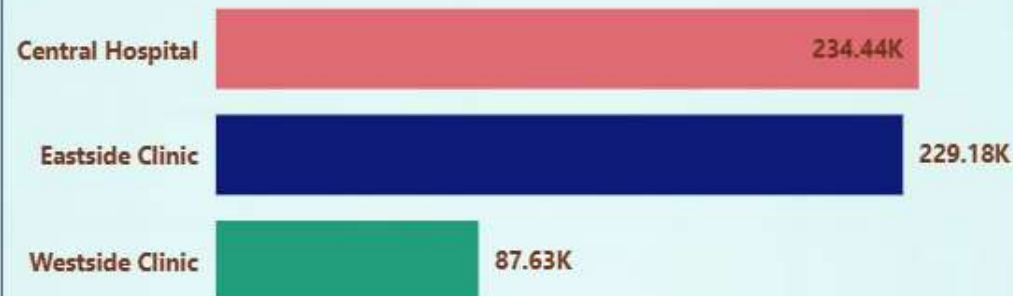
Pending Revenue

185K

Treatment Distribution by Type



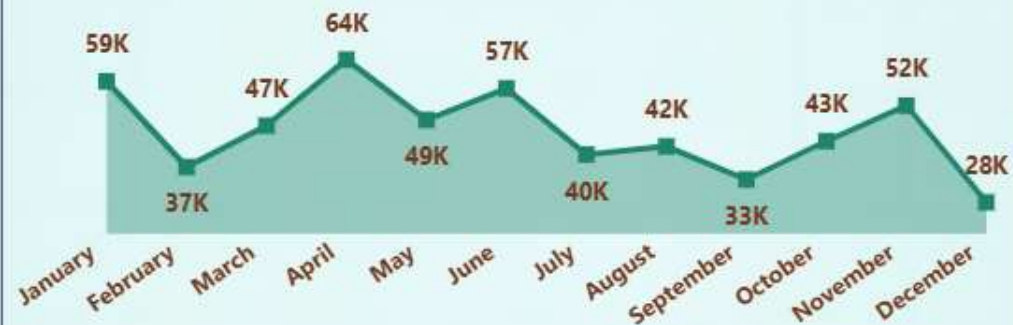
Revenue by Hospital Branch



Monthly Appointment Trend



Monthly Revenue Trend



Appointment\_date

All

Appointment Sta...

All

Hospital\_branch

All

Doctor Specializ...

All

Doctor name

All





## HEALTHCARE ANALYSIS DASHBOARD- PATIENT INSIGHTS

Total  
Appointments

200

Completed  
Appointments

46

No-Show  
Appointments

52

Total Revenue

551K

Paid Revenue

173K

Pending Revenue

185K



Appointment\_date

All

Appointment Sta...

All

Hospital\_branch

All

Doctor Specializ...

All

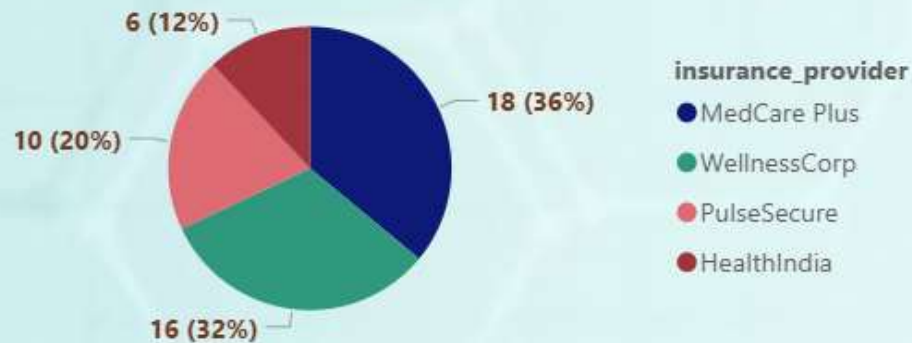
Doctor name

All

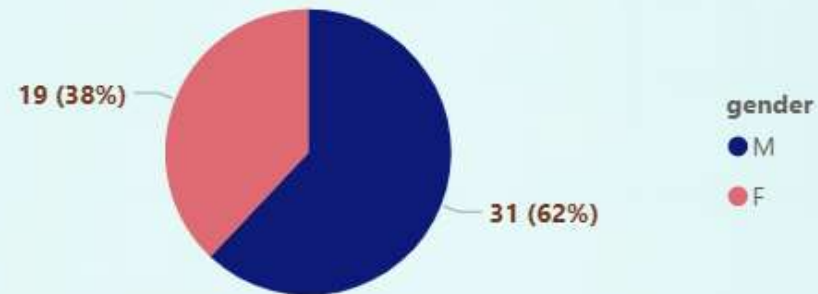
New Patients Registration



Patients by Insurance Provider



Patient Gender Distribution





## HEALTHCARE ANALYSIS DASHBOARD- APPOINTMENT ANALYSIS

Total  
Appointments  
**200**

Completed  
Appointments  
**46**

No-Show  
Appointments  
**52**

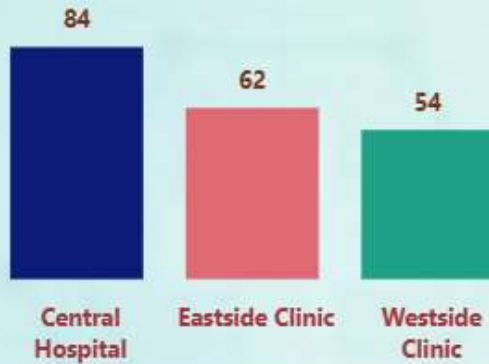
Total Revenue  
**551K**

Paid Revenue  
**173K**

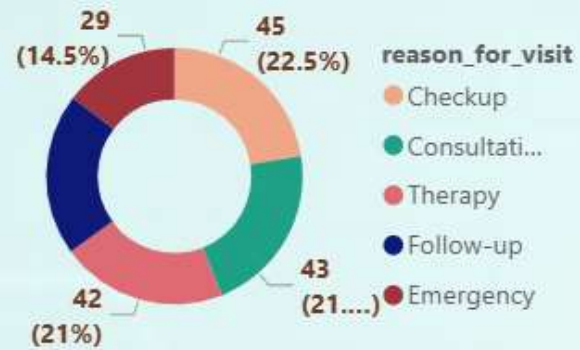
Pending Revenue  
**185K**



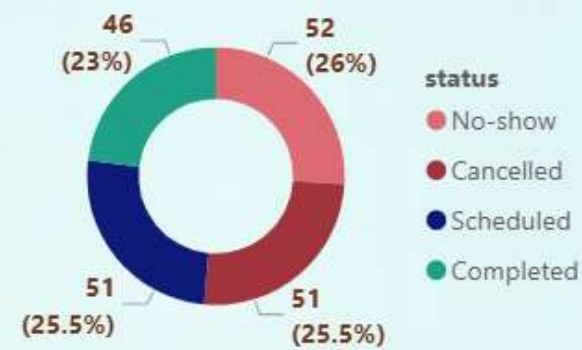
Branch-wise Appointments



Appointments by Reason for Visit



Appointments by Status



No-Shows Over Time



Appointment\_date

All

Appointment Sta...

All

Hospital\_branch

All

Doctor Specializ...

All

Doctor name

All





## HEALTHCARE ANALYSIS DASHBOARD- DOCTOR & TREATMENT INSIGHTS

Total  
Appointments

200

Completed  
Appointments

46

No-Show  
Appointments

52

Total Revenue

551K

Paid Revenue

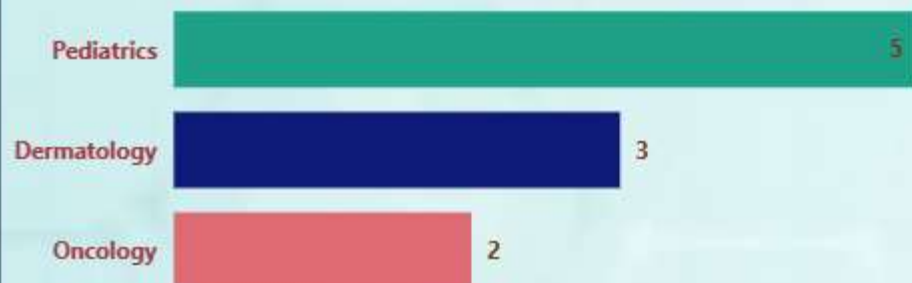
173K

Pending Revenue

185K



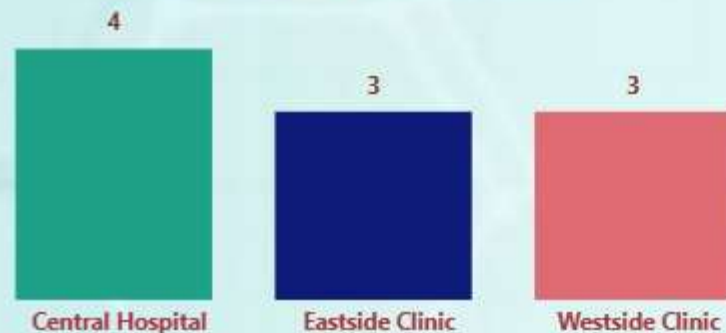
Doctors by Specialization



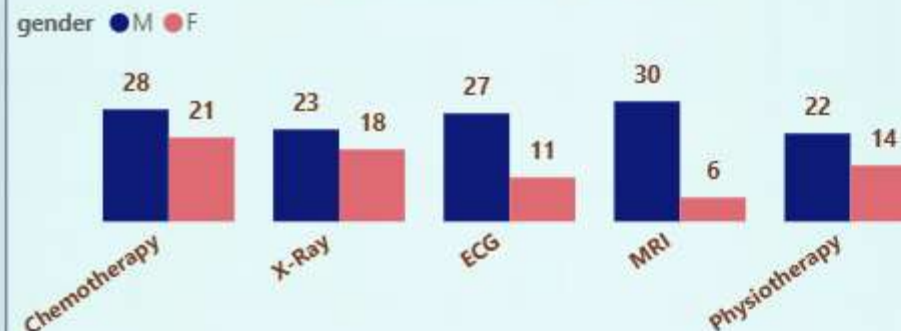
Top Treatments by count



Doctors by Hospital Branch



Treatment Mix by Gender



Appointment\_date

All

Appointment Sta...

All

Hospital\_branch

All

Doctor Specialization

All

Doctor name

All



## HEALTHCARE ANALYSIS DASHBOARD- FINANCIAL INSIGHTS

Total  
Appointments

200

Completed  
Appointments

46

No-Show  
Appointments

52

Total Revenue

551K

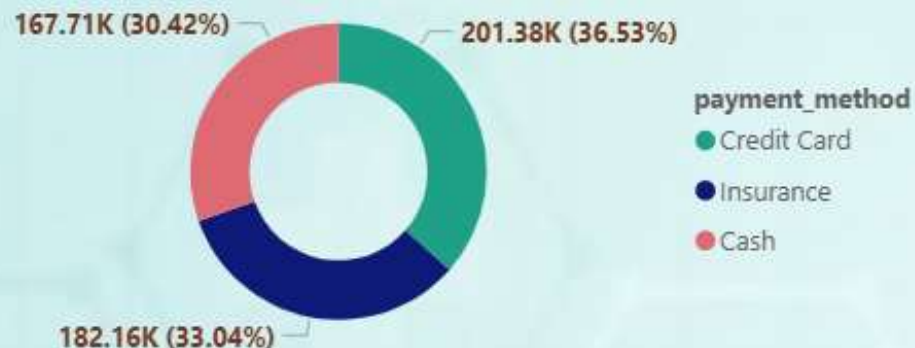
Paid Revenue

173K

Pending Revenue

185K

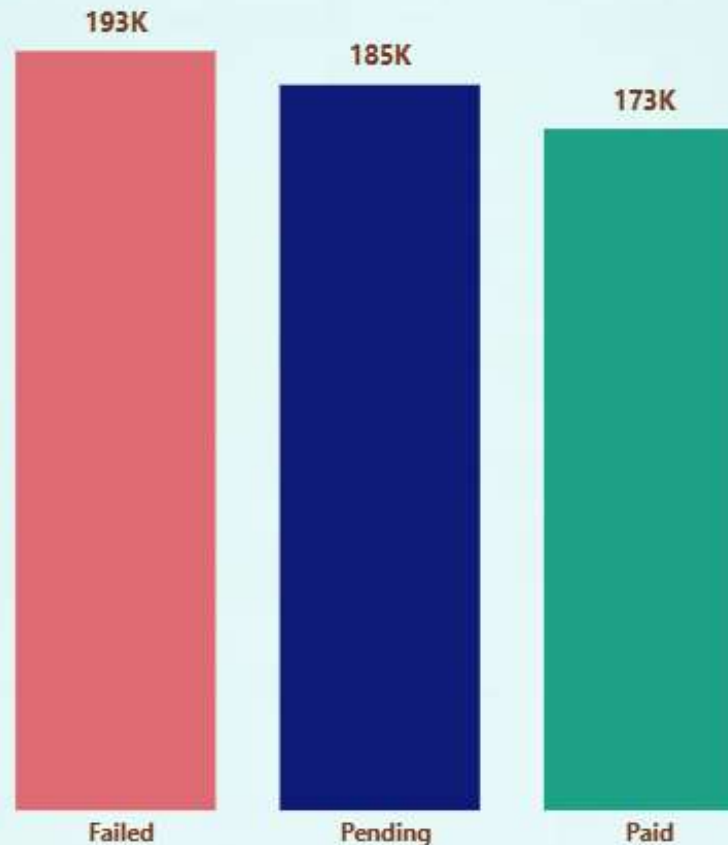
Revenue by Payment Method



Top 5 Revenue Generating Doctors



Collections vs Pending Payment Status



Appointment\_date

All

Appointment Sta...

All

Hospital\_branch

All

Doctor Specializ...

All

Doctor name

All





**Derive Conclusion and Inferences from  
the Dashboard.**



## ✦ Conclusions & Inferences

### 1.Appointments are not effective

1. Out of 200 appointments, only 46 were completed.
2. Around 52 patients did not show up → this means time and resources are wasted.

### 2.Revenue is at risk

1. Hospital generated 551K in revenue, but only 173K was collected.
2. 185K is still pending → this is a cash flow problem for the hospital.

### 3.Branch performance is uneven

1. Central & Eastside branches are doing well, while Westside branch is underperforming.
2. This shows that resources or promotions may not be equally distributed.



#### 4. Doctors & services make a big difference

1. Certain doctors and treatments (like chemotherapy & imaging) bring more revenue than others.
2. Recognizing and supporting top performers can help increase hospital income.

#### 5. Seasonal demand exists

1. September and May had the highest appointments.
2. Hospital needs to plan staff and resources in advance for these busy months.

#### ✓ Overall Inference

The hospital is losing money due to no-shows and pending payments. If they can remind patients, collect payments faster, and promote weaker branches, overall performance will improve.