

JOB PORTAL DATABASE PROJECT:

KEY MILESTONE 3:

GROUP MEMBERS:

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TABLES AND METADATA:

```
MariaDB [(none)]> use job_portal;
Database changed
MariaDB [job_portal]> show tables;
+-----+
| Tables_in_job_portal |
+-----+
| applications          |
| employers             |
| jobs                  |
| jobseekers            |
| resumes               |
| users                 |
+-----+
6 rows in set (0.001 sec)

MariaDB [job_portal]>
```

USERS

```
MariaDB [job_portal]> describe users;
```

Field	Type	Null	Key	Default	Extra
UserID	bigint(20) unsigned	NO	PRI	NULL	auto_increment
Name	varchar(100)	NO		NULL	
Email	varchar(255)	NO	UNI	NULL	
Password	varchar(255)	NO		NULL	
UserType	varchar(10)	NO		NULL	

```
5 rows in set (0.010 sec)

MariaDB [job_portal]> select *from users;
```

UserID	Name	Email	Password	UserType
1	Ali Khan	ali.khan@domain.pk	hashed_pwd1	JobSeeker
2	Fatima Ali	fatima.ali@domain.pk	hashed_pwd2	JobSeeker
3	Tech Solutions HR	hr@techsolutions.pk	hashed_pwd3	Employer
4	Lahore IT Services HR	hr@lahoreit.pk	hashed_pwd4	Employer

```
4 rows in set (0.000 sec)

MariaDB [job_portal]> 
```

Jobseeker

```
MariaDB [job_portal]> describe jobseekers;
```

Field	Type	Null	Key	Default	Extra
seekerID	bigint(20) unsigned	NO	PRI	NULL	auto_increment
UserID	bigint(20) unsigned	NO	UNI	NULL	
dateofbirth	date	NO		NULL	
Address	text	NO		NULL	
ProfileSummary	text	NO		NULL	

```
5 rows in set (0.004 sec)

MariaDB [job_portal]> select *from jobseekers;
```

seekerID	UserID	dateofbirth	Address	ProfileSummary
1	1	1995-03-21	Gulberg III, Lahore, Pakistan	Aspiring software engineer proficient in Java and Python.
2	2	1992-11-05	Defence Phase VIII, Karachi, Pakistan	Data analyst skilled in sql and Excel with 3 years of experience.

```
2 rows in set (0.000 sec)

MariaDB [job_portal]> 
```

APPLICATIONS

```
MariaDB [job_portal]> select *from applications;
```

ApplicationID	JobID	SeekerID	ResumeID	AppliedDate	Status
7	1	1	1	2025-06-02	Pending
8	2	1	1	2025-06-02	Pending
9	3	2	2	2025-06-02	Pending

```
3 rows in set (0.000 sec)
```

```
MariaDB [job_portal]> describe applications;
```

Field	Type	Null	Key	Default	Extra
ApplicationID	bigint(20) unsigned	NO	PRI	NULL	auto_increment
JobID	bigint(20) unsigned	NO	MUL	NULL	
SeekerID	bigint(20) unsigned	NO	MUL	NULL	
ResumeID	bigint(20) unsigned	NO	MUL	NULL	
AppliedDate	date	NO		curdate()	
Status	varchar(10)	NO		NULL	

```
6 rows in set (0.010 sec)
```

```
MariaDB [job_portal]>
```

EMPLOYERS

```
MariaDB [job_portal]> describe employers;
```

Field	Type	Null	Key	Default	Extra
EmployerID	bigint(20) unsigned	NO	PRI	NULL	auto_increment
UserID	bigint(20) unsigned	NO	UNI	NULL	
CompanyName	varchar(255)	NO		NULL	
CompanyDescription	text	YES		NULL	
CompanyWebsite	varchar(255)	YES		NULL	
VerifiedStatus	tinyint(1)	NO		0	

```
6 rows in set (0.005 sec)
```

```
MariaDB [job_portal]> select *from employers;
```

EmployerID	UserID	CompanyName	CompanyDescription	CompanyWebsite	VerifiedStatus
1	3	Tech Solutions PK	Leading IT solutions provider in Pakistan.	https://www.techsolutions.pk	1
2	4	Lahore IT Services	Offering web development and support services.	https://www.lahoreit.pk	1

```
2 rows in set (0.000 sec)
```

```
MariaDB [job_portal]>
```

JOBS:

```
MariaDB [job_portal]> describe jobs;
```

Field	Type	Null	Key	Default	Extra
JobID	bigint(20) unsigned	NO	PRI	NULL	auto_increment
EmployerID	bigint(20) unsigned	NO	FK	NULL	
Title	varchar(255)	NO		NULL	
Description	text	NO		NULL	
Requirements	text	NO		NULL	
Location	varchar(255)	NO		NULL	
SalaryRange	varchar(50)	YES		NULL	
PostedDate	date	NO		curdate()	

```
8 rows in set (0.000 sec)
```

```
MariaDB [job_portal]> select *from jobs;
```

JobID	EmployerID	Title	Description	Requirements
		Location	SalaryRange	PostedDate
1	1	Software Developer	Develop and maintain web applications for domestic and international clients.	BSc in Computer Science; 1-2 years of experience in PHP, JavaScript, and Laravel.
2	1	QA Engineer	Test and ensure the quality of software products; write test plans and bug reports.	2 years in manual and automated testing; familiarity with Selenium & JMeter.
3	2	Data Analyst	Analyze business data, generate dashboards, and present insights to stakeholders.	Bachelor's in Statistics or related field; proficient in SQL, Excel, and Power BI.

```
5 rows in set (0.000 sec)
```

```
MariaDB [job_portal]>
```

RESUMES

```
MariaDB [job_portal]> describe resumes;
```

Field	Type	Null	Key	Default	Extra
ResumeID	bigint(20) unsigned	NO	PRI	NULL	auto_increment
SeekerID	bigint(20) unsigned	NO	MUL	NULL	
FilePath	varchar(500)	NO		NULL	
UploadDate	date	NO		curdate()	
LastUpdated	date	NO		curdate()	

```
5 rows in set (0.005 sec)
```



```
MariaDB [job_portal]> select *from resumes;
```

ResumeID	SeekerID	FilePath	UploadDate	LastUpdated
1	1	/resumes/ali_khan_cv.pdf	2025-06-02	2025-06-02
2	2	/resumes/fatima_ali_resume.pdf	2025-06-02	2025-06-02

```
2 rows in set (0.000 sec)
```



```
MariaDB [job_portal]> _
```

SQL Queries

-- List all jobs posted by a specific employer

```
SELECT j.JobID, j.JobTitle, j.Location, j.PostedDate FROM Jobs j JOIN  
Employers e ON j.EmployerID = e.EmployerID WHERE  
e.CompanyName = 'XYZ Technologies';
```

-- List all applications for a specific jobseeker

```
SELECT a.ApplicationID, j.JobTitle, a.ApplicationDate, a.Status FROM  
Applications a JOIN Jobs j ON a.JobID = j.JobID WHERE a.JobseekerID  
= 1;
```

-- Retrieve jobseeker details along with their resume

```
SELECT js.FirstName, js.LastName, r.ResumeFilePath FROM  
Jobseekers js JOIN Resumes r ON js.ResumeID = r.ResumeID WHERE  
js.JobseekerID = 1;
```

-- Count number of applications per job

```
SELECT j.JobTitle, COUNT(a.ApplicationID) AS ApplicationCount  
FROM Jobs j LEFT JOIN Applications a ON j.JobID = a.JobID GROUP BY  
j.JobID;
```

-- List employers and the number of jobs they have posted

```
SELECT e.CompanyName, COUNT(j.JobID) AS JobCount FROM  
Employers e LEFT JOIN Jobs j ON e.EmployerID = j.EmployerID  
GROUP BY e.EmployerID;
```
