

FETCH ALL DEPARTMENTS

Day 6 MySql Database > TechNova_Assignment.sql > ...

242 -- =====

243

244 -- Fetch all departments

245 `SELECT * FROM Department;` 5ms

246

247 -- Fetch all employees

248 `SELECT * FROM Employee;`

249

250 -- Fetch all projects

251 `SELECT * FROM Project;`

252

253 -- Fetch all performance records

254 `SELECT * FROM Performance;`

255

Department X

Search Results

Cost: 12ms < 1 > Total 5

	DeptID int	DeptName varchar(50)	Location varchar(50)
>	101	IT	Bangalore
>	102	HR	Delhi
>	103	Finance	Mumbai
>	104	Marketing	Pune
>	105	Operations	Hyderabad

FETCH ALL EMPLOYEES

Day 6 MySql Database > TechNova_Assignment.sql > ...

246

247 -- Fetch all employees
▷ Run | +Tab | JSON | Ask AI

✓ 248 SELECT * FROM Employee; 3ms

249

250 -- Fetch all projects
▷ Run | +Tab | JSON | Ask AI

251 SELECT * FROM Project;

252

253 -- Fetch all performance records
▷ Run | +Tab | JSON | Ask AI

254 SELECT * FROM Performance;

255

256 -- Fetch all rewards
▷ Run | +Tab | JSON | Ask AI

257 SELECT * FROM Reward;

258

Employee

Search Results

Export

Cost: 7ms < 1 > Total 6

	EmpID int	EmpName varchar(50)	Gender enum('M','F')	DOB date	HireDate date	DeptID int
>	1	Asha	F	1990-07-12	2018-06-10	101
>	2	Raj	M	1988-04-09	2020-03-22	103
>	3	Neha	F	1995-01-15	2021-08-05	101
>	4	Amit	M	1992-10-20	2019-11-15	103
>	5	Karan	M	1993-05-12	2022-01-03	104
>	6	Priya	F	1997-12-02	2024-07-01	101

FETCH ALL PROJECTS

Day 6 MySql Database > TechNova_Assignment.sql > ...

250 -- Fetch all projects
251 SELECT * FROM Project; 3ms
252
253 -- Fetch all performance records
254 SELECT * FROM Performance;
255
256 -- Fetch all rewards
257 SELECT * FROM Reward;
258
259 SELECT
260 e.EmpID,
261 e.EmpName,
262 e.Gender,

Project

Search Results

Export

Cost: 39ms < 1 > Total 5

	ProjectID int	ProjectName varchar(100)	DeptID int	StartDate date	EndDate date
>	201	Payroll System	103	2020-01-01	2020-12-31
>	202	HR Portal	102	2021-03-01	2021-09-30
>	203	TechNova App	101	2022-01-15	2022-11-30
>	204	Marketing Dashboard	104	2023-04-01	2023-10-15
>	205	ERP Integration	101	2024-01-10	(NULL)

main

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127.0.0.1

technovadb

Privanchaal14@it-confi

global user email:privanchaal14@gmail.com (1 hour

FETCH ALL REWARDS

Day 6 MySql Database > TechNova_Assignment.sql > ...

256 -- Fetch all rewards

257 SELECT * FROM Reward; 4ms

258

259 SELECT

260 e.EmpID,

261 e.EmpName,

262 e.Gender,

263 e.DOB,

264 e.HireDate,

265 d.DeptName,

266 d.Location AS DeptLocation,

267 p.ProjectName,

268 pr.Rating AS PerformanceRating,

269 pr.ReviewDate,

270 r.RewardMonth,

Reward

Search Results

Cost: 10ms < 1 > Total 5

	EmpID int	RewardMonth date	RewardAmount decimal(10,2)
>	1	2024-03-01	2500.00
>	2	2024-02-01	1800.00
>	3	2024-04-01	3000.00
>	5	2024-06-01	2100.00
>	6	2024-08-01	2300.00

FETCH ALL PERFORMANCE RECORDS

Day 6 MySql Database > TechNova_Assignment.sql > ...

217

218 -- Fetch all departments
▷ Run | +Tab | JSON | Ask AI
219 SELECT * FROM Department;
220

221 -- Fetch all employees
▷ Run | +Tab | JSON | Ask AI
222 SELECT * FROM Employee;
223

224 -- Fetch all projects
▷ Run | +Tab | JSON | Ask AI
225 SELECT * FROM Project;
226

227 -- Fetch all performance records
▷ Run | +Tab | JSON | Ask AI
228 SELECT * FROM Performance; 43ms
229

230 -- Fetch all rewards
▷ Run | +Tab | JSON | Ask AI
231 SELECT * FROM Reward;
232

233 -- Fetch All Record From Database
▷ Run | +Tab | JSON | Select | Ask AI
234 SELECT

Performance X

⛶ ⚙️ ✉️ 👤 + + 🗑️ ↺ ↻ ⬆️ Export

🔍 Search Results

🟢 👁 Cost: 49ms < 1 > Total 6

	🔍	🔗 EmpID int	🔗 ProjectID int	📊 Rating decimal(3,1)	📅 ReviewDate
☐	>	1	203	4.5	2023-12-15
☐	>	2	202	4.0	2023-09-20
☐	>	3	205	4.8	2024-06-30
☐	>	4	201	3.9	2021-12-15

FETCH ALL RECORDS

Day 6 MySql Database > TechNova_Assignment.sql > ...

259 | -- Fetch All Record From Database
D>Run | +Tab | JSON | D>Select | Q>Ask AI

✓ 260
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```
-- Fetch All Record From Database
SELECT
  e.EmpID,
  e.EmpName,
  e.Gender,
  e.DOB,
  e.HireDate,
  d.DeptName,
  d.location AS DeptLocation,
  p.ProjectName,
  pr.Rating AS PerformanceRating,
  pr.ReviewDate,
  r.RewardMonth,
  r.RewardAmount
FROM Employee e
LEFT JOIN Department d ON e.DeptID = d.DeptID
LEFT JOIN Performance pr ON e.EmpID = pr.EmpID
LEFT JOIN Project p ON pr.ProjectID = p.ProjectID
LEFT JOIN Reward r ON e.EmpID = r.EmpID
ORDER BY e.EmpID; 5ms
```

Result(RO) X

Search Results

Cost: 5ms < 1 > Total 6

EmpID	EmpName	Gender	DOB	HireDate	DeptName	DeptLocation	ProjectName	PerformanceRating	ReviewDate	RewardMonth	RewardAmount
int	varchar	string	date	date	varchar	varchar	varchar	decimal	date	date	decimal
1	Asha	F	1990-07-12	2018-06-10	IT	Bangalore	TechNova App	4.5	2023-12-15	2024-03-01	2500.00
2	Raj	M	1988-04-09	2020-03-22	Finance	Mumbai	HR Portal	4.0	2023-09-20	2024-02-01	1800.00
3	Neha	F	1995-01-15	2021-08-05	IT	Bangalore	ERP Integration	4.8	2024-06-30	2024-04-01	3000.00
4	Amit	M	1992-10-20	2019-11-15	Finance	Mumbai	Payroll System	3.9	2021-12-15	(NULL)	(NULL)
5	Karan	M	1993-05-12	2022-01-03	Marketing	Pune	Marketing Dashboard	4.2	2023-09-10	2024-06-01	2100.00
6	Priya	F	1997-12-02	2024-07-01	IT	Bangalore	TechNova App	4.7	2024-07-30	2024-08-01	2300.00

Day 6 MySql Database > TechNova_Assignment.sql > ...

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```
-- Query Optimization Example using EXPLAIN
-- Slow Query (without index analysis)
D>Run | D>Select | Q>Ask AI
EXPLAIN SELECT e.EmpName, d.DeptName, p.ProjectName, pr.Rating
FROM Employee e
JOIN Department d ON e.DeptID = d.DeptID
JOIN Performance pr ON e.EmpID = pr.EmpID
JOIN Project p ON pr.ProjectID = p.ProjectID; 3ms

-- After index creation (already created idx_empname, idx_deptid)
-- Re-run EXPLAIN to compare improvement
-- END OF SCRIPT
```

Result(RO) X

Search Results

Cost: 3ms < 1 > Total 4

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered	Extra
bigint	varchar	varchar	medium_blob	varchar	varchar	varchar	varchar	varchar	bigint	double	varchar
> 1	SIMPLE	p	(NULL)	ALL	PRIMARY	(NULL)	(NULL)	(NULL)	5	100.00	(NULL)
> 1	SIMPLE	pr	(NULL)	ref	PRIMARY,ProjectID	ProjectID	4	technovadb.p.ProjectID	1	100.00	(NULL)
> 1	SIMPLE	e	(NULL)	eq_ref	PRIMARY,idx_deptid	PRIMARY	4	technovadb.pr.EmpID	1	100.00	Using where
> 1	SIMPLE	d	(NULL)	eq_ref	PRIMARY	PRIMARY	4	technovadb.e.DeptID	1	100.00	(NULL)

FETCH RESULTS WITH JOINS AND SUBQUERIES

Day 6 MySql Database > TechNova_Assignment.sql > ...

```
159 -- USER STORY 4 - ADVANCED QUERIES (JOINS & SUBQUERIES)
160 -- =====
161
162 -- 1. Display Employee Name, Department Name, Project Name, and Rating
163 SELECT e.EmpName, d.DeptName, p.ProjectName, pr.Rating
164 FROM Employee e
165 JOIN Department d ON e.DeptID = d.DeptID
166 JOIN Performance pr ON e.EmpID = pr.EmpID
167 JOIN Project p ON pr.ProjectID = p.ProjectID; 5ms
168
169 -- 2. Highest-rated employee in each department
170 SELECT e.EmpName, d.DeptName, pr.Rating
171 FROM Performance pr
172 JOIN Employee e ON pr.EmpID = e.EmpID
173 JOIN Department d ON e.DeptID = d.DeptID
174 WHERE pr.Rating = (
175     SELECT MAX(p2.Rating)
176     FROM Performance p2
177     JOIN Employee e2 ON p2.EmpID = e2.EmpID
178     WHERE e2.DeptID = d.DeptID
179 );
```

Result(RO) X

Search Results

Cost: 5ms < 1 > Total 6

EmpName	DeptName	ProjectName	Rating
varchar	varchar	varchar	decimal
> Amit	Finance	Payroll System	3.9
> Raj	Finance	HR Portal	4.0
> Asha	IT	TechNova App	4.5
> Priya	IT	TechNova App	4.7

```
Day 6 MySql Database > TechNova_Assignment.sql > ...
159 -- USER STORY 4 - ADVANCED QUERIES (JOINS & SUBQUERIES)
160 -- =====
161
162 -- 1. Display Employee Name, Department Name, Project Name, and Rating
163 > Run | +Tab | JSON | Select | Ask AI
164 SELECT e.EmpName, d.DeptName, p.ProjectName, pr.Rating
165 FROM Employee e
166 JOIN Department d ON e.DeptID = d.DeptID
167 JOIN Performance pr ON e.EmpID = pr.EmpID
168 JOIN Project p ON pr.ProjectID = p.ProjectID;
169
170 -- 2. Highest-rated employee in each department
171 > Run | +Tab | JSON | Select | Ask AI
172 SELECT e.EmpName, d.DeptName, pr.Rating
173 FROM Performance pr
174 JOIN Employee e ON pr.EmpID = e.EmpID
175 JOIN Department d ON e.DeptID = d.DeptID
176 WHERE pr.Rating = (
177     SELECT MAX(p2.Rating)
178     FROM Performance p2
179     JOIN Employee e2 ON p2.EmpID = e2.EmpID
180     WHERE e2.DeptID = d.DeptID
181 ); 12ms
```

Result(RO) x

Search Results

Cost: 12ms < 1 > Total 3

EmpName	DeptName	Rating
varchar	varchar	decimal
> Raj	Finance	4.0
> Neha	IT	4.8
> Karan	Marketing	4.2

```
Day 6 MySql Database > TechNova_Assignments.sql > ...
164 FROM Employee e
165 JOIN Department d ON e.DeptID = d.DeptID
166 JOIN Performance pr ON e.EmpID = pr.EmpID
167 JOIN Project p ON pr.ProjectID = p.ProjectID;
168
169 -- 2. Highest-rated employee in each department
170 > Run | +Tab | JSON | Select | Ask AI
171 SELECT e.EmpName, d.DeptName, pr.Rating
172 FROM Performance pr
173 JOIN Employee e ON pr.EmpID = e.EmpID
174 JOIN Department d ON e.DeptID = d.DeptID
175 WHERE pr.Rating = (
176     SELECT MAX(p2.Rating)
177     FROM Performance p2
178     JOIN Employee e2 ON p2.EmpID = e2.EmpID
179     WHERE e2.DeptID = d.DeptID
180 );
181
182 -- 3. Employees with no rewards
183 > Run | +Tab | JSON | Ask AI
184 SELECT EmpName
185 FROM Employee
186 WHERE EmpID NOT IN (SELECT EmpID FROM Reward); 35ms
```

Result(RO) x

Search Results

Cost: 35ms < 1 > Total 1

EmpName
varchar
> Amit