

Database model documentation

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1. Model details

Model name:

Recruitment_Process

Version:

2.3

Database engine:

MySQL

Description:

2. Tables

2.1. Table applicant

Description:

list of all applicants

2.1.1. Columns

Column name	Type	Properties	Description
id	int	PK	
code	varchar(32)		internal code used uniquely for that applicant
first_name	varchar(128)		
last_name	varchar(128)		
phone	varchar(64)	null	
email	varchar(128)	null	
summary	text	null	

2.1.2. Alternate keys

Key name	Columns	Description
applicant_ak_1	code	

2.2. Table job

Description:

list of all opened jobs/positions in a company

2.2.1. Columns

Column name	Type	Properties	Description
id	int	PK	
code	varchar(32)		internal UNIQUE ID
job_type_id	int		
posted_date	date		
start_date	date		
employees_needed	int		
description	text		

company_id	int		
date_process_started	date	null	initial date when we plan to start the selection process for this job - could be NULL until the time we decide the actual date and define whole process

2.2.2. Alternate keys

Key name	Columns	Description
job_ak_1	code	

2.3. Table recruiter

Description:

list of all recruiters

2.3.1. Columns

Column name	Type	Properties	Description
id	int	PK	
code	varchar(32)		
first_name	varchar(128)		
last_name	varchar(128)		
summary	text		

2.4. Table test

Description:

list of all tests (online, paper tests, interviews)

2.4.1. Columns

Column name	Type	Properties	Description
id	int	PK	
test_name	varchar(255)		
test_type_id	int		
date_created	date		
max_score	int		
max_duration	int		

test_link	text	null	link to the test location
is_active	bool		

2.4.2. Alternate keys

Key name	Columns	Description
test_ak_1	test_name	

2.5. Table test_type

Description:

CV review, online skill test, "paper" skill test, interview

2.5.1. Columns

Column name	Type	Properties	Description
id	int	PK	
type_name	varchar(255)		

2.5.2. Alternate keys

Key name	Columns	Description
test_type_ak_1	type_name	

2.6. Table company

Description:

list of companies we work for

2.6.1. Columns

Column name	Type	Properties	Description
id	int	PK	
code	varchar(32)		internal UNIQUE ID
details	text		

2.6.2. Alternate keys

Key name	Columns	Description
company_ak_1	code	

2.7. Table process

Description:

related with ordered list of all tests during the recruitment process for a certain position

2.7.1. Columns

Column name	Type	Properties	Description
id	int	PK	
process_name	varchar(255)		

2.7.2. Alternate keys

Key name	Columns	Description
process_ak_1	process_name	

2.8. Table test_in_process

Description:

position of a certain test in a certain process

2.8.1. Columns

Column name	Type	Properties	Description
id	int	PK	
process_id	int		
test_id	int		
test_order	int		order # of that test when used during that process

2.8.2. Alternate keys

Key name	Columns	Description
test_in_process_ak_1	process_id, test_order	

2.9. Table posted_on

Description:

where the job was posted/advertised

2.9.1. Columns

Column name	Type	Properties	Description
id	int	PK	
job_id	int		

description	text	null	
link	text	null	if the job was posted online

2.10. Table job_type

Description:

dictionary of all possible job types (e.g. database administrator, IT journalist)

2.10.1. Columns

Column name	Type	Properties	Description
id	int	PK	
type_name	varchar(255)		
type_description	text	null	

2.10.2. Alternate keys

Key name	Columns	Description
job_type_ak_1	type_name	

2.11. Table document

2.11.1. Columns

Column name	Type	Properties	Description
id	int	PK	
document_name	varchar(255)		
document_location	text		
last_updated	date		

2.12. Table related_document

2.12.1. Columns

Column name	Type	Properties	Description
id	int	PK	
document_id	int		
applicant_Id	int		

2.12.2. Alternate keys

Key name	Columns	Description
related_document_ak_1	document_id, applicant_Id	

2.13. Table application

2.13.1. Columns

Column name	Type	Properties	Description
id	int	PK	
applicant_id	int		
recruiter_id	int		
application_status_id	int		current application status
application_date	date		
application_details	text	null	
process_id	int		

2.14. Table applied_for

2.14.1. Columns

Column name	Type	Properties	Description
id	int	PK	
application_id	int		
job_id	int		
selected	bool		is this applicant selected for this job or not

2.14.2. Alternate keys

Key name	Columns	Description
applied_for_ak_1	application_id, job_id	

2.15. Table application_status

Description:

list of all possible statuses application could be in; e.g. "applied", "CV reviewed", "chosen for the test", "rejected after CV review", "passed the test", "invited to an interview", "terminated by

applicant"

2.15.1. Columns

Column name	Type	Properties	Description
id	int	PK	
status_name	varchar(255)		

2.15.2. Alternate keys

Key name	Columns	Description
application_status_ak_1	status_name	

2.16. Table test_taken

Description:

list of all tests (and CV reviews) taken by applicants

2.16.1. Columns

Column name	Type	Properties	Description
id	int	PK	
application_id	int		
test_id	int		
time_created	timestamp		
expected_test_start_time	timestamp		
expected_test_end_time	timestamp		
test_start_time	timestamp	null	when the test really started
test_end_time	timestamp	null	when the test really ended
test_status_id	int		
test_link	text	null	link where the test containing all answers is stored
score	int	null	score is updated when test is completed and graded

max_score	int		we need to store max_score from the test table because test and score could change during time
notes	text	null	

2.16.2. Alternate keys

Key name	Columns	Description
test_taken_ak_1	test_id, application_id, expected_test_start_time	

2.17. Table test_status

Description:

list of all possible statuses test could be in; e.g. "not started", "in progress", "completed successfully", "completed unsuccessfully", "postponed", "canceled", "applicant canceled"

2.17.1. Columns

Column name	Type	Properties	Description
id	int	PK	
status_name	varchar(255)		

2.17.2. Alternate keys

Key name	Columns	Description
test_status_ak_1	status_name	

2.18. Table process_available

Description:

list all processes we could use for specific job type

2.18.1. Columns

Column name	Type	Properties	Description
id	int	PK	
job_type_id	int		
process_id	int		

2.18.2. Alternate keys

Key name	Columns	Description
process_avaliable_ak_1	job_type_id, process_id	

2.19. Table recruiter_graded

2.19.1. Columns

Column name	Type	Properties	Description
id	int	PK	
recruiter_id	int		
test_taken_id	int		
score	int		
notes	text	null	

2.19.2. Alternate keys

Key name	Columns	Description
recruiter_graded_ak_1	recruiter_id, test_taken_id	

2.20. Table application_status_history

Description:

history of all statuses assigned to applications

2.20.1. Columns

Column name	Type	Properties	Description
id	int	PK	
application_id	int		
application_status_id	int		
status_time	timestamp		

2.20.2. Alternate keys

Key name	Columns	Description
application_status_history_ak_1	application_id, status_time	

2.21. Table notes

2.21.1. Columns

Column name	Type	Properties	Description
id	int	PK	
applicant_id	int		
recruiter_id	int	null	
note_text	text		
ts	timestamp		

3. References

3.1. Reference related_document_document

document	0..*	related_document
id	<->	document_id

3.2. Reference related_document_applicant

applicant	0..*	related_document
id	<->	applicant_Id

3.3. Reference job_job_type

job_type	0..*	job
id	<->	job_type_id

3.4. Reference job_company

company	0..*	job
id	<->	company_id

3.5. Reference posted_on_job

job	0..*	posted_on
id	<->	job_id

3.6. Reference test_test_type

test_type	0..*	test
id	<->	test_type_id

3.7. Reference test_in_process_process

process	0..*	test_in_process
id	<->	process_id

3.8. Reference test_in_process_test

test	0..*	test_in_process
id	<->	test_id

3.9. Reference application_applicant

applicant	0..*	application
id	<->	applicant_id

3.10. Reference applied_for_application

application	0..*	applied_for
id	<->	application_id

3.11. Reference applied_for_job

job	0..*	applied_for
id	<->	job_id

3.12. Reference application_application_status

application_status	0..*	application
id	<->	application_status_id

3.13. Reference application_process

process	0..*	application
id	<->	process_id

3.14. Reference test_taken_application

application	0..*	test_taken
id	<->	application_id

3.15. Reference test_taken_test_status

test_status	0..*	test_taken
id	<->	test_status_id

3.16. Reference process_avaliabile_process

process	0..*	process_avaliabile
id	<->	process_id

3.17. Reference process_avaliabile_job_type

job_type	0..*	process_avaliabile
id	<->	job_type_id

3.18. Reference test_taken_test

test	0..*	test_taken
id	<->	test_id

3.19. Reference recruiter_graded_recruiter

recruiter	0..*	recruiter_graded
id	<->	recruiter_id

3.20. Reference recruiter_graded_test_taken

test_taken	0..*	recruiter_graded
id	<->	test_taken_id

3.21. Reference application_status_history_application

application	0..*	application_status_history
id	<->	application_id

3.22. Reference application_status_history_application_status

application_status	0..*	application_status_history
id	<->	application_status_id

3.23. Reference notes_applicant

applicant	0..*	notes
id	<->	applicant_id

3.24. Reference notes_recruiter

recruiter	0..*	notes
id	<->	recruiter_id

3.25. Reference application_recruiter

recruiter	0..*	application
id	<->	recruiter_id

4. Areas

4.1. Jobs subject area

4.1.1. Tables

- job
- company
- posted_on
- job_type

4.1.2. References

- related_document_document
- related_document_applicant
- job_job_type
- job_company
- posted_on_job
- test_test_type
- test_in_process_process
- test_in_process_test
- application_applicant
- applied_for_application
- applied_for_job
- application_application_status
- application_process
- test_taken_application
- test_taken_test_status
- process_avaiable_process
- process_avaiable_job_type
- test_taken_test
- recruiter_graded_recruiter
- recruiter_graded_test_taken
- application_status_history_application
- application_status_history_application_status
- notes_applicant
- notes_recruiter
- application_recruiter

4.2. Test details subject area

4.2.1. Tables

- test

- test_type
- process
- test_in_process
- job_type
- process_avaliabile

4.2.2. References

- related_document_document
- related_document_applicant
- job_job_type
- job_company
- posted_on_job
- test_test_type
- test_in_process_process
- test_in_process_test
- application_applicant
- applied_for_application
- applied_for_job
- application_application_status
- application_process
- test_taken_application
- test_taken_test_status
- process_avaliabile_process
- process_avaliabile_job_type
- test_taken_test
- recruiter_graded_recruiter
- recruiter_graded_test_taken
- application_status_history_application
- application_status_history_application_status
- notes_applicant
- notes_recruiter
- application_recruiter

4.3. Applicants, Recruiters and Documents subject area

4.3.1. Tables

- applicant
- recruiter
- document
- related_document
- notes

4.3.2. References

- related_document_document
- related_document_applicant
- job_job_type
- job_company
- posted_on_job
- test_test_type
- test_in_process_process
- test_in_process_test
- application_applicant
- applied_for_application
- applied_for_job
- application_application_status
- application_process
- test_taken_application
- test_taken_test_status
- process_avaliable_process
- process_avaliable_job_type
- test_taken_test
- recruiter_graded_recruiter
- recruiter_graded_test_taken
- application_status_history_application
- application_status_history_application_status
- notes_applicant
- notes_recruiter
- application_recruiter

4.4. Applications subject area

4.4.1. Tables

- application
- job
- applied_for
- application_status
- application_status_history
- recruiter

4.4.2. References

- related_document_document
- related_document_applicant
- job_job_type

- job_company
- posted_on_job
- test_test_type
- test_in_process_process
- test_in_process_test
- application_applicant
- applied_for_application
- applied_for_job
- application_application_status
- application_process
- test_taken_application
- test_taken_test_status
- process_avaliable_process
- process_avaliable_job_type
- test_taken_test
- recruiter_graded_recruiter
- recruiter_graded_test_taken
- application_status_history_application
- application_status_history_application_status
- notes_applicant
- notes_recruiter
- application_recruiter

4.5. Application tests subject area

4.5.1. Tables

- test_taken
- application
- test_status
- recruiter
- recruiter_graded

4.5.2. References

- related_document_document
- related_document_applicant
- job_job_type
- job_company
- posted_on_job
- test_test_type
- test_in_process_process
- test_in_process_test

- application_applicant
- applied_for_application
- applied_for_job
- application_application_status
- application_process
- test_taken_application
- test_taken_test_status
- process_avaliable_process
- process_avaliable_job_type
- test_taken_test
- recruiter_graded_recruiter
- recruiter_graded_test_taken
- application_status_history_application
- application_status_history_application_status
- notes_applicant
- notes_recruiter
- application_recruiter