

Datenmodell: Design

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Designentscheidungen

Das Design des Datenmodells deckt sich in unserem Fall größtenteils mit dem Objektmodell, da wir uns für den Weg entschieden *Hibernate* für das Mapping von Objekt- nach Datenmodell einzusetzen.

Eine Grundlegende Entscheidung war mehrere Turniere in einem Schema zu erlauben. Damit war es uns möglich beliebig viele Turniere zu generieren und auf einem umfangreicheren Testdatensatz zu operieren.

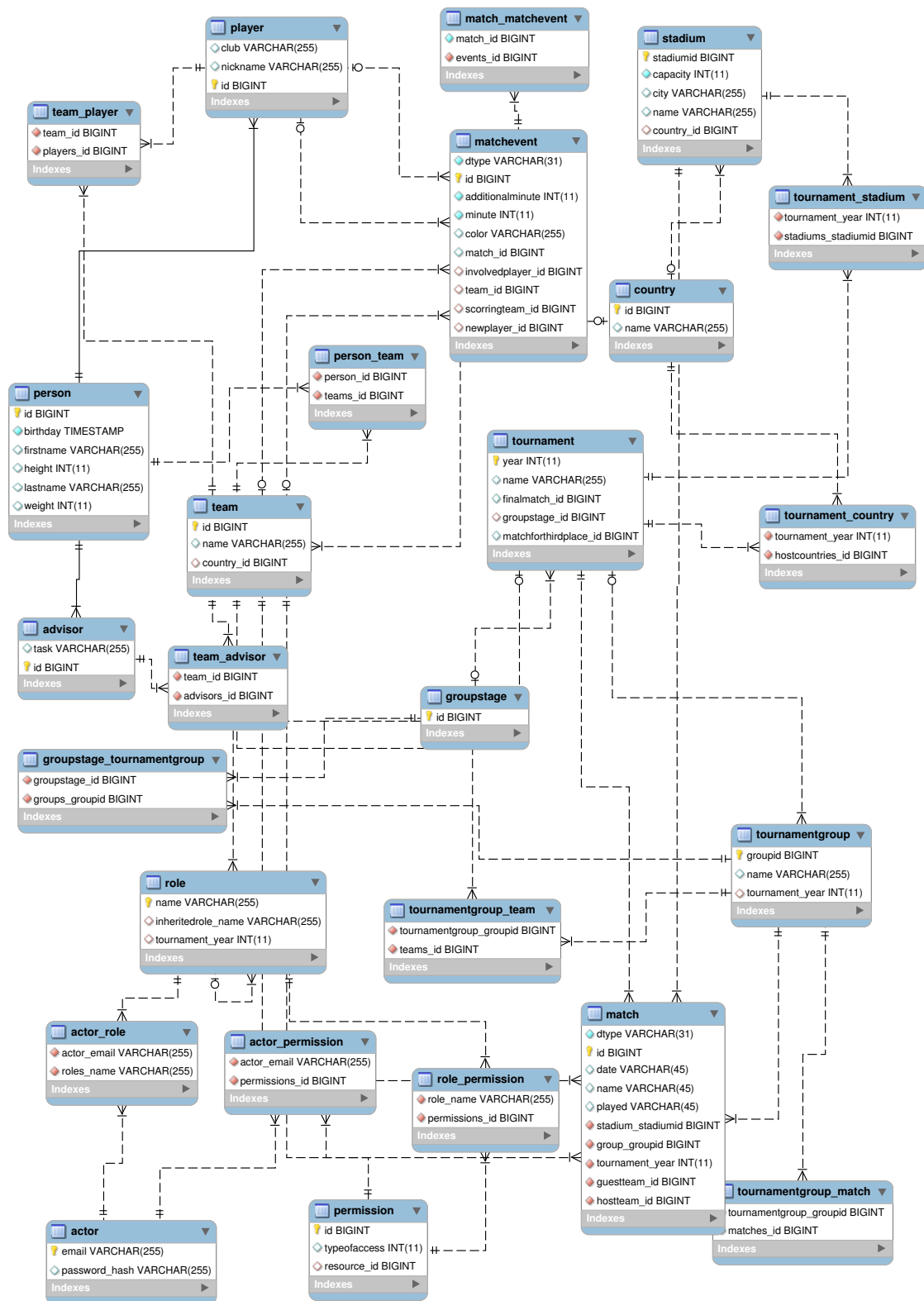
OR-Mapper Vorgehensweise

Wir haben uns entschieden mit *Hibernate* zu Arbeiten. Dabei wurde ausgehend von einem Java-Objektmodell ein relationales Modell erstellt. In unserem Build-Prozess (mittels *Maven*) wird das Schema jedesmal regeneriert und in die Datenbank exportiert. Ein Snapshot der Datenbank inklusive *Stored Procedure* zur Turniererstellung folgt unten.

Alle Testdaten werden von unserer GUI-Anwendung automatisch generiert und in der Datenbank persistiert. Die Turniererstellung aus dem Programm heraus ist sowohl über die *Stored Procedure* als über Java-Methoden möglich.

relationales Schema

Grafisches Model



SQL (Postgres)

```
1  --
2  -- PostgreSQL database dump
3  --
4
5  SET statement_timeout = 0;
6  SET client_encoding = 'UTF8';
7  SET standard_conforming_strings = off;
8  SET check_function_bodies = false;
9  SET client_min_messages = warning;
10 SET escape_string_warning = off;
11
12 SET search_path = public, pg_catalog;
13
14 ALTER TABLE ONLY public.role_permission DROP CONSTRAINT fkf8a569386ac4edcc;
15 ALTER TABLE ONLY public.role_permission DROP CONSTRAINT fkf8a56938401023a7;
16 ALTER TABLE ONLY public.stadium DROP CONSTRAINT fkf21d53ddfcf4fc9d;
17 ALTER TABLE ONLY public.matchevent DROP CONSTRAINT fke491d7f5df1dd7b0;
18 ALTER TABLE ONLY public.matchevent DROP CONSTRAINT fke491d7f5db6578d7;
19 ALTER TABLE ONLY public.matchevent DROP CONSTRAINT fke491d7f5c7168977;
20 ALTER TABLE ONLY public.matchevent DROP CONSTRAINT fke491d7f56a9e6294;
21 ALTER TABLE ONLY public.matchevent DROP CONSTRAINT fke491d7f560766fd;
22 ALTER TABLE ONLY public.match_match DROP CONSTRAINT fkd7c3a68b884bbd1;
23 ALTER TABLE ONLY public.match_match DROP CONSTRAINT fkd7c3a68b1fd58223;
24 ALTER TABLE ONLY public.team_player DROP CONSTRAINT fkd4e5f703db6578d7;
25 ALTER TABLE ONLY public.team_player DROP CONSTRAINT fkd4e5f70318f27aa6;
26 ALTER TABLE ONLY public.actor_permission DROP CONSTRAINT fkc243699d36f2a65;
27 ALTER TABLE ONLY public.actor_permission DROP CONSTRAINT fkc243699401023a7;
28 ALTER TABLE ONLY public.match_matchevent DROP CONSTRAINT fkbfc93acfdcc26853;
29 ALTER TABLE ONLY public.match_matchevent DROP CONSTRAINT fkbfc93acf60766fd;
30 ALTER TABLE ONLY public.tournamentgroup_team DROP CONSTRAINT fkb7678b26d57db48a;
31 ALTER TABLE ONLY public.tournamentgroup_team DROP CONSTRAINT fkb7678b26cdc8c6de;
32 ALTER TABLE ONLY public.tournament_stadium DROP CONSTRAINT fkabf317a7db034f8f;
33 ALTER TABLE ONLY public.tournament_stadium DROP CONSTRAINT fkabf317a774b12939;
34 ALTER TABLE ONLY public.team_advisor DROP CONSTRAINT fka1d587deea5528a;
35 ALTER TABLE ONLY public.team_advisor DROP CONSTRAINT fka1d587dedb6578d7;
36 ALTER TABLE ONLY public.player DROP CONSTRAINT fk8ea387019b9d8d6d;
37 ALTER TABLE ONLY public.tournamentgroup DROP CONSTRAINT fk6372df674b12939;
38 ALTER TABLE ONLY public.groupstage_tournamentgroup DROP CONSTRAINT fk62cd5967d361fb7;
39 ALTER TABLE ONLY public.groupstage_tournamentgroup DROP CONSTRAINT fk62cd596526daa28;
40 ALTER TABLE ONLY public.permission DROP CONSTRAINT fk57f7a1ef94470e9c;
41 ALTER TABLE ONLY public.tournament_country DROP CONSTRAINT fk5625b3409a553667;
42 ALTER TABLE ONLY public.tournament_country DROP CONSTRAINT fk5625b34074b12939;
43 ALTER TABLE ONLY public.person_team DROP CONSTRAINT fk49fd4907ce781a97;
44 ALTER TABLE ONLY public.person_team DROP CONSTRAINT fk49fd4907cdc8c6de;
45 ALTER TABLE ONLY public.match DROP CONSTRAINT fk46ae9a5f0ec562f;
46 ALTER TABLE ONLY public.match DROP CONSTRAINT fk46ae9a5e2487ff;
47 ALTER TABLE ONLY public.match DROP CONSTRAINT fk46ae9a5d4eae9bd3;
48 ALTER TABLE ONLY public.match DROP CONSTRAINT fk46ae9a574b12939;
49 ALTER TABLE ONLY public.match DROP CONSTRAINT fk46ae9a515c9d2b6;
50 ALTER TABLE ONLY public.tournament DROP CONSTRAINT fk3b743609fcd043a4;
51 ALTER TABLE ONLY public.tournament DROP CONSTRAINT fk3b7436097d361fb7;
52 ALTER TABLE ONLY public.tournament DROP CONSTRAINT fk3b74360966de6d99;
53 ALTER TABLE ONLY public.tournamentgroup_match DROP CONSTRAINT fk3525aa1cd57db48a;
54 ALTER TABLE ONLY public.tournamentgroup_match DROP CONSTRAINT fk3525aa1c2801c0aa;
55 ALTER TABLE ONLY public.team DROP CONSTRAINT fk27b67dfcf4fc9d;
56 ALTER TABLE ONLY public.role DROP CONSTRAINT fk26f496da563832;
57 ALTER TABLE ONLY public.role DROP CONSTRAINT fk26f49674b12939;
58 ALTER TABLE ONLY public.actor_role DROP CONSTRAINT fk26e2d0c0e4a0b3e5;
59 ALTER TABLE ONLY public.actor_role DROP CONSTRAINT fk26e2d0c0d36f2a65;
60 ALTER TABLE ONLY public.advisor DROP CONSTRAINT fk1fc9f7a09b9d8d6d;
61 ALTER TABLE ONLY public.tournamentgroup_team DROP CONSTRAINT
   tournamentgroup_team_teams_id_key;
62 ALTER TABLE ONLY public.tournamentgroup DROP CONSTRAINT tournamentgroup_pkey;
63 ALTER TABLE ONLY public.tournamentgroup_match DROP CONSTRAINT
   tournamentgroup_match_matches_id_key;
64 ALTER TABLE ONLY public.tournament DROP CONSTRAINT tournament_pkey;
```

```

65 ALTER TABLE ONLY public.team DROP CONSTRAINT team_pkey;
66 ALTER TABLE ONLY public.team_advisor DROP CONSTRAINT team_advisor_advisors_id_key;
67 ALTER TABLE ONLY public.stadium DROP CONSTRAINT stadium_pkey;
68 ALTER TABLE ONLY public.role DROP CONSTRAINT role_pkey;
69 ALTER TABLE ONLY public.role_permission DROP CONSTRAINT
   role_permission_permissions_id_key;
70 ALTER TABLE ONLY public.resource DROP CONSTRAINT resource_pkey;
71 ALTER TABLE ONLY public.player DROP CONSTRAINT player_pkey;
72 ALTER TABLE ONLY public.person DROP CONSTRAINT person_pkey;
73 ALTER TABLE ONLY public.permission DROP CONSTRAINT permission_pkey;
74 ALTER TABLE ONLY public.matchevent DROP CONSTRAINT matchevent_pkey;
75 ALTER TABLE ONLY public.match DROP CONSTRAINT match_pkey;
76 ALTER TABLE ONLY public.match_matchevent DROP CONSTRAINT match_matchevent_events_id_key;
77 ALTER TABLE ONLY public.groupstage_tournamentgroup DROP CONSTRAINT
   groupstage_tournamentgroup_groups_groupid_key;
78 ALTER TABLE ONLY public.groupstage DROP CONSTRAINT groupstage_pkey;
79 ALTER TABLE ONLY public.country DROP CONSTRAINT country_pkey;
80 ALTER TABLE ONLY public.advisor DROP CONSTRAINT advisor_pkey;
81 ALTER TABLE ONLY public.actor_role DROP CONSTRAINT actor_role_roles_name_key;
82 ALTER TABLE ONLY public.actor DROP CONSTRAINT actor_pkey;
83 ALTER TABLE ONLY public.actor_permission DROP CONSTRAINT
   actor_permission_permissions_id_key;
84 DROP TABLE public.tournamentgroup_team;
85 DROP TABLE public.tournamentgroup_match;
86 DROP TABLE public.tournamentgroup;
87 DROP TABLE public.tournament_stadium;
88 DROP TABLE public.tournament_country;
89 DROP TABLE public.tournament;
90 DROP TABLE public.team_player;
91 DROP TABLE public.team_advisor;
92 DROP TABLE public.role_permission;
93 DROP TABLE public.role;
94 DROP TABLE public.resource;
95 DROP TABLE public.person_team;
96 DROP TABLE public.person;
97 DROP TABLE public.permission;
98 DROP TABLE public.matchevent;
99 DROP TABLE public.match_matchevent;
100 DROP TABLE public.match_match;
101 DROP TABLE public.match;
102 DROP SEQUENCE public.hibernate_sequence;
103 DROP TABLE public.groupstage_tournamentgroup;
104 DROP TABLE public.advisor;
105 DROP TABLE public.actor_role;
106 DROP TABLE public.actor_permission;
107 DROP TABLE public.actor;
108 DROP FUNCTION public.getstadiumsforcountry(bigint);
109 DROP TABLE public.stadium;
110 DROP FUNCTION public.getplayer();
111 DROP TABLE public.player;
112 DROP FUNCTION public.getnextsequence();
113 DROP FUNCTION public.getcountry();
114 DROP TABLE public.country;
115 DROP FUNCTION public.generateteam();
116 DROP TABLE public.team;
117 DROP FUNCTION public.generatematch(bigint, bigint, bigint);
118 DROP FUNCTION public.generateknockouttree(integer, bigint);
119 DROP FUNCTION public.generategroupstage();
120 DROP TABLE public.groupstage;
121 DROP FUNCTION public.generategroupmatches(bigint);
122 DROP FUNCTION public.createchampionship(integer, text);
123 DROP FUNCTION public.concat(character_varying, bigint);
124 DROP FUNCTION public.concat(character_varying, integer);
125 DROP PROCEDURAL LANGUAGE plpgsql;
126 DROP SCHEMA public;
127 —
128 — Name: public; Type: SCHEMA; Schema: —; Owner: postgres
129 —

```

```

130
131 CREATE SCHEMA public;
132
133
134 ALTER SCHEMA public OWNER TO postgres;
135
136 —
137 — Name: plpgsql; Type: PROCEDURAL LANGUAGE; Schema: —; Owner: postgres
138 —
139
140 CREATE PROCEDURAL LANGUAGE plpgsql;
141
142
143 ALTER PROCEDURAL LANGUAGE plpgsql OWNER TO postgres;
144
145 SET search_path = public, pg_catalog;
146
147 —
148 — Name: concat(character varying, integer); Type: FUNCTION; Schema: public; Owner:
149 —      postgres
150 —
151 CREATE FUNCTION concat(character varying, integer) RETURNS character varying
152     LANGUAGE plpgsql
153     AS $_$
154 BEGIN
155     return $1 || ' ' || chr(49 + ($2%119));
156 END
157 $_$;
158
159
160 ALTER FUNCTION public.concat(character varying, integer) OWNER TO postgres;
161
162 —
163 — Name: concat(character varying, bigint); Type: FUNCTION; Schema: public; Owner:
164 —      postgres
165 —
166 CREATE FUNCTION concat(character varying, bigint) RETURNS character varying
167     LANGUAGE plpgsql
168     AS $_$
169 BEGIN
170     return $1 || ' ' || chr(CAST(49 + ($2%119) AS INT));
171 END
172 $_$;
173
174
175 ALTER FUNCTION public.concat(character varying, bigint) OWNER TO postgres;
176
177 —
178 — Name: createchampionship(integer, text); Type: FUNCTION; Schema: public; Owner:
179 —      postgres
180 —
181 CREATE FUNCTION createchampionship(integer, text) RETURNS void
182     LANGUAGE plpgsql
183     AS $_$
184 DECLARE
185     yearParam ALIAS FOR $1;
186     nameParam ALIAS FOR $2;
187     host country%ROWTYPE;
188     currentStadium stadium%ROWTYPE;
189     groupStage groupstage%ROWTYPE;
190     finalId bigint;
191 BEGIN
192     RAISE NOTICE 'Creating a new tournament';
193
194     — Generiert die K.O.-Phase

```

```

195     finalId := getNextSequence();
196     INSERT INTO match(id, name, played, dtype)
197     VALUES (finalId, 'Finale', false, 'KnockoutMatch');
198     PERFORM generateKnockoutTree(1, finalId);
199
200     —Generiert die Gruppenphase
201     groupStage := generateGroupStage();
202
203     —Speichert das Turnier ab
204     INSERT INTO tournament (year, name, finalmatch_id, groupstage_id)
205     VALUES (yearParam, nameParam, finalId, groupStage.id);
206
207     — Set a random host country
208     host := getCountry();
209     INSERT INTO "tournament_country" VALUES (yearParam, host.id);
210
211     — Set 8 random stadiums
212     FOR currentStadium IN SELECT * FROM getStadiumsForCountry(host.id) LOOP
213         INSERT INTO tournament_stadium VALUES(yearParam, currentStadium.stadiumid);
214     END LOOP;
215     RETURN;
216 END;
217 $_$;
218
219
220 ALTER FUNCTION public.createchampionship(integer, text) OWNER TO postgres;
221
222 —
223 — Name: generategroupmatches(bigint); Type: FUNCTION; Schema: public; Owner: postgres
224 —
225
226 CREATE FUNCTION generategroupmatches(bigint) RETURNS void
227     LANGUAGE plpgsql
228     AS $_$
229 DECLARE
230     groupId ALIAS FOR $1;
231     numberOfTeams int;
232     currentTeam team%ROWTYPE;
233     teams team[];
234     i int;
235     j int;
236 BEGIN
237
238     SELECT COUNT(*) INTO numberOfTeams
239     FROM tournamentgroup_team
240     WHERE tournamentgroup_groupid = groupId;
241
242     — Test ob genugend Teams in der Gruppe sind
243     if(numberOfTeams < 4) THEN
244         RAISE EXCEPTION 'at least 4 teams have to be in a group';
245         RETURN;
246     END IF;
247
248
249     — Erstellt ein Array aus dem Teams der Gruppe
250     teams := '{}';
251     FOR currentTeam IN
252         SELECT t.*
253         FROM team t
254         JOIN tournamentgroup_team g ON (g.teams_id = t.id)
255         WHERE tournamentgroup_groupid = groupId
256     LOOP
257         teams := array_append(teams, currentTeam);
258     END LOOP;
259
260     — Laesst jede Mannschaft einmal gegen alle anderen Mannschaften antreten
261     FOR i IN 1..4 LOOP
262         FOR j IN (i+1)..4 LOOP

```

```

263         PERFORM generateMatch(teams[i].id, teams[j].id, groupId);
264     END LOOP;
265 END LOOP;
266
267     return;
268
269 END
270 $_$;
271
272
273 ALTER FUNCTION public.generategroupmatches(bigint) OWNER TO postgres;
274
275 SET default_tablespace = '';
276
277 SET default_with_oids = false;
278
279 —
280 — Name: groupstage; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
281 —
282
283 CREATE TABLE groupstage (
284     id bigint NOT NULL
285 );
286
287
288 ALTER TABLE public.groupstage OWNER TO postgres;
289
290 —
291 — Name: generategroupstage(); Type: FUNCTION; Schema: public; Owner: postgres
292 —
293
294 CREATE FUNCTION generategroupstage() RETURNS groupstage
295     LANGUAGE plpgsql
296     AS $$
297 DECLARE
298     stageId int;
299     stage groupstage;
300     currentTeam team;
301     currentGroup tournamentgroup;
302     currentGroupId bigint;
303     i int;
304     j int;
305 BEGIN
306     stageId := getNextSequence();
307
308     INSERT INTO groupstage VALUES (stageId);
309
310     — Fuer alle 8 Gruppen
311     FOR i IN 1..8 LOOP
312         currentGroupId := getNextSequence();
313
314         INSERT INTO tournamentgroup (groupid, name)
315         VALUES (currentGroupId, concat('Gruppe', 10));
316
317         — generiere 4 Mannschaften
318         FOR j IN 1..4 LOOP
319             currentTeam := generateTeam();
320
321             INSERT INTO tournamentgroup_team (tournamentgroup_groupid, teams_id)
322             VALUES (currentGroupId, currentTeam.id);
323         END LOOP;
324
325         INSERT INTO groupstage_tournamentgroup VALUES (stageId, currentGroupId);
326
327         — und trage die Gruppenspiele ein
328         PERFORM generateGroupMatches(currentGroupId);
329
330     END LOOP;

```

```

331     SELECT * INTO stage FROM groupstage WHERE id = stageId;
332
333     return stage;
334
335 END
336 $$;
337
338
339 ALTER FUNCTION public.generategroupstage() OWNER TO postgres;
340
341 —
342 — Name: generateknockouttree(integer, bigint); Type: FUNCTION; Schema: public; Owner:
343 — postgres
344 —
345
346 CREATE FUNCTION generateknockouttree(integer, bigint) RETURNS void
347     LANGUAGE plpgsql
348     AS $_$
349 DECLARE
350     height ALIAS FOR $1;
351     nodeId ALIAS FOR $2;
352     matchId1 bigint;
353     matchId2 bigint;
354     newHeight int;
355     knockoutMatchType varchar;
356 BEGIN
357     — Rekursionsanker
358     IF (height > 3) THEN
359         RETURN;
360     ELSIF (height = 1) THEN
361         knockoutMatchType := 'Halbfinale';
362     ELSIF (height = 2) THEN
363         knockoutMatchType := 'Viertelfinale';
364     ELSIF (height = 3) THEN
365         knockoutMatchType := 'Achtelfinale';
366     END IF;
367
368
369     — Erstellen zweier Kindspiele
370     matchId1 := getNextSequence();
371     INSERT INTO match(id, name, played, dtype)
372     VALUES (matchId1, knockoutMatchType, false, 'KnockoutMatch');
373
374     matchId2 := getNextSequence();
375     INSERT INTO match(id, name, played, dtype)
376     VALUES (matchId2, knockoutMatchType, false, 'KnockoutMatch');
377
378     — Hinzufuegen zum Baum
379     INSERT INTO match_match(match_id, childs_id) VALUES (nodeId, matchId1);
380     INSERT INTO match_match(match_id, childs_id) VALUES (nodeId, matchId2);
381
382     — rekursiver Aufruf
383     newHeight := height + 1;
384     PERFORM generateKnockoutTree(newHeight, matchId1);
385     PERFORM generateKnockoutTree(newHeight, matchId2);
386
387     RETURN;
388 END;
389 $_$;
390
391
392 ALTER FUNCTION public.generateknockouttree(integer, bigint) OWNER TO postgres;
393
394 —
395 — Name: generatematch(bigint, bigint, bigint); Type: FUNCTION; Schema: public; Owner:
396 — postgres

```



```

397
398 CREATE FUNCTION generatematch(bigint , bigint , bigint) RETURNS void
399     LANGUAGE plpgsql
400     AS $_$
401 DECLARE
402     hostTeam ALIAS FOR $1;
403     guestTeam ALIAS FOR $2;
404     groupId ALIAS FOR $3;
405     matchId bigint;
406     i int;
407 BEGIN
408     matchId := getNextSequence();
409
410     INSERT INTO match(id, hostteam_id, guestteam_id, played, dtype, group_groupid)
411     VALUES (matchId, hostTeam, guestTeam, false, 'GroupMatch', groupId);
412
413     INSERT INTO tournamentgroup_match
414     VALUES (groupId, matchId);
415 END
416 $_$;
417
418
419 ALTER FUNCTION public.generatematch(bigint , bigint , bigint) OWNER TO postgres;
420
421 --
422 -- Name: team; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
423 --
424
425 CREATE TABLE team (
426     id bigint NOT NULL,
427     name character varying(255),
428     country_id bigint
429 );
430
431
432 ALTER TABLE public.team OWNER TO postgres;
433
434 --
435 -- Name: generateteam(); Type: FUNCTION; Schema: public; Owner: postgres
436 --
437
438 CREATE FUNCTION generateteam() RETURNS team
439     LANGUAGE plpgsql
440     AS $$
441 DECLARE
442     i int;
443     j int;
444     sequenceValue int;
445     playerId int;
446     selectedTeam Team%ROWTYPE;
447 BEGIN
448     SELECT id INTO i FROM getCountry();
449
450     sequenceValue := getNextSequence();
451
452     INSERT INTO team VALUES (sequenceValue, concat('Musterteam ', sequenceValue), i);
453     SELECT * INTO selectedTeam FROM team WHERE id = sequenceValue;
454
455     FOR j IN 1..23 LOOP
456         SELECT id INTO playerId FROM getPlayer();
457         INSERT INTO team_player VALUES (selectedTeam.id, playerId);
458         INSERT INTO person_team VALUES (playerId, selectedTeam.id);
459     END LOOP;
460
461     return selectedTeam;
462 END
463 $$;
464

```

```

465
466 ALTER FUNCTION public.generateteam() OWNER TO postgres;
467
468 —
469 — Name: country; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
470 —
471
472 CREATE TABLE country (
473     id bigint NOT NULL,
474     name character varying(255)
475 );
476
477
478 ALTER TABLE public.country OWNER TO postgres;
479
480 —
481 — Name: getcountry(); Type: FUNCTION; Schema: public; Owner: postgres
482 —
483
484 CREATE FUNCTION getcountry() RETURNS SETOF country
485     LANGUAGE plpgsql
486     AS $$
487 DECLARE
488     selectedRow Country%ROWTYPE;
489     n int := 0;
490 BEGIN
491     SELECT COUNT(*) INTO n FROM Country;
492     IF (n < 1) THEN
493         INSERT INTO Country VALUES (getNextSequence(), 'DummyLand');
494     END IF;
495
496     SELECT * INTO selectedRow FROM Country ORDER BY RANDOM() LIMIT 1;
497     RETURN NEXT selectedRow;
498 END
499 $$;
500
501
502 ALTER FUNCTION public.getcountry() OWNER TO postgres;
503
504 —
505 — Name: getNextSequence(); Type: FUNCTION; Schema: public; Owner: postgres
506 —
507
508 CREATE FUNCTION getNextSequence() RETURNS bigint
509     LANGUAGE sql
510     AS $$
511     SELECT nextval('hibernate_sequence') FROM hibernate_sequence;
512 $$;
513
514
515 ALTER FUNCTION public.getNextSequence() OWNER TO postgres;
516
517 —
518 — Name: player; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
519 —
520
521 CREATE TABLE player (
522     club character varying(255),
523     nickname character varying(255),
524     id bigint NOT NULL
525 );
526
527
528 ALTER TABLE public.player OWNER TO postgres;
529
530 —
531 — Name: getPlayer(); Type: FUNCTION; Schema: public; Owner: postgres
532 —

```

```

533
534 CREATE FUNCTION getplayer() RETURNS player
535     LANGUAGE plpgsql
536     AS $$
537 DECLARE
538     createdPlayer Player%ROWTYPE;
539     sequenceValue bigint;
540 BEGIN
541     sequenceValue := getNextSequence();
542
543     INSERT INTO person (id, firstname, lastname)
544     VALUES (sequenceValue, concat('Vorname', sequenceValue), concat('Nachname',
545                                     sequenceValue));
546
547     INSERT INTO player (id, nickname, club)
548     VALUES (sequenceValue, concat('Nick', sequenceValue), 'FC Seehaeusl');
549
550     SELECT * INTO createdPlayer FROM player WHERE id = sequenceValue;
551
552     return createdPlayer;
553 END
554 $$;
555
556 ALTER FUNCTION public.getplayer() OWNER TO postgres;
557
558 —
559 — Name: stadium; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
560 —
561
562 CREATE TABLE stadium (
563     stadiumid bigint NOT NULL,
564     capacity integer NOT NULL,
565     city character varying(255),
566     name character varying(255),
567     country_id bigint
568 );
569
570
571 ALTER TABLE public.stadium OWNER TO postgres;
572
573 —
574 — Name: getstadiumsforcountry(bigint); Type: FUNCTION; Schema: public; Owner: postgres
575 —
576
577 CREATE FUNCTION getstadiumsforcountry(bigint) RETURNS SETOF stadium
578     LANGUAGE plpgsql
579     AS $ _ $
580 DECLARE _
581     countryId ALIAS FOR $1;
582     selectedRow Stadium%ROWTYPE;
583     n int := 0;
584     i int;
585 BEGIN
586     SELECT COUNT(*) INTO n FROM Stadium WHERE country_id = countryId;
587     IF (n < 8) THEN
588         FOR i IN 1..(8-n) LOOP
589             INSERT INTO Stadium VALUES (getNextSequence(), 500, concat('Dummystadt',i) ,
590                                     concat('Dummystadion',i), countryId);
591         END LOOP;
592     END IF;
593
594     FOR selectedRow IN SELECT * FROM stadium ORDER BY RANDOM() LIMIT 8 LOOP
595         return next selectedRow;
596     END LOOP;
597
598     return;
599 END

```

```

599 $ _ $ ;
600
601
602 ALTER FUNCTION public.getstadiumsforcountry(bigint) OWNER TO postgres;
603
604 —
605 — Name: actor; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
606 —
607
608 CREATE TABLE actor (
609     email character varying(255) NOT NULL,
610     password_hash character varying(255)
611 );
612
613
614 ALTER TABLE public.actor OWNER TO postgres;
615
616 —
617 — Name: actor_permission; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
618 —
619
620 CREATE TABLE actor_permission (
621     actor_email character varying(255) NOT NULL,
622     permissions_id bigint NOT NULL
623 );
624
625
626 ALTER TABLE public.actor_permission OWNER TO postgres;
627
628 —
629 — Name: actor_role; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
630 —
631
632 CREATE TABLE actor_role (
633     actor_email character varying(255) NOT NULL,
634     roles_name character varying(255) NOT NULL
635 );
636
637
638 ALTER TABLE public.actor_role OWNER TO postgres;
639
640 —
641 — Name: advisor; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
642 —
643
644 CREATE TABLE advisor (
645     task character varying(255),
646     id bigint NOT NULL
647 );
648
649
650 ALTER TABLE public.advisor OWNER TO postgres;
651
652 —
653 — Name: groupstage_tournamentgroup; Type: TABLE; Schema: public; Owner: postgres;
654 —     Tablespace:
655 —
656 CREATE TABLE groupstage_tournamentgroup (
657     groupstage_id bigint NOT NULL,
658     groups_groupid bigint NOT NULL
659 );
660
661
662 ALTER TABLE public.groupstage_tournamentgroup OWNER TO postgres;
663
664 —
665 — Name: hibernate_sequence; Type: SEQUENCE; Schema: public; Owner: postgres

```

```

666 —
667
668 CREATE SEQUENCE hibernate_sequence
669     START WITH 1
670     INCREMENT BY 1
671     NO MAXVALUE
672     NO MINVALUE
673     CACHE 1;
674
675
676 ALTER TABLE public.hibernate_sequence OWNER TO postgres;
677
678 —
679 — Name: match; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
680 —
681
682 CREATE TABLE match (
683     dtype character varying(31) NOT NULL,
684     id bigint NOT NULL,
685     date timestamp without time zone,
686     name character varying(255),
687     played boolean NOT NULL,
688     guestteam_id bigint,
689     hostteam_id bigint,
690     stadium_stadiumid bigint,
691     tournament_year integer,
692     group_groupid bigint
693 );
694
695
696 ALTER TABLE public.match OWNER TO postgres;
697
698 —
699 — Name: match_match; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
700 —
701
702 CREATE TABLE match_match (
703     match_id bigint NOT NULL,
704     childs_id bigint NOT NULL
705 );
706
707
708 ALTER TABLE public.match_match OWNER TO postgres;
709
710 —
711 — Name: match_matchevent; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
712 —
713
714 CREATE TABLE match_matchevent (
715     match_id bigint NOT NULL,
716     events_id bigint NOT NULL
717 );
718
719
720 ALTER TABLE public.match_matchevent OWNER TO postgres;
721
722 —
723 — Name: matchevent; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
724 —
725
726 CREATE TABLE matchevent (
727     dtype character varying(31) NOT NULL,
728     id bigint NOT NULL,
729     additionalminute integer NOT NULL,
730     minute integer NOT NULL,
731     color character varying(255),
732     match_id bigint,
733     involvedplayer_id bigint,

```

```

734     team_id bigint ,
735     scoringteam_id bigint ,
736     newplayer_id bigint
737 );
738
739
740 ALTER TABLE public.matchevent OWNER TO postgres;
741
742 —
743 — Name: permission; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
744 —
745
746 CREATE TABLE permission (
747     id bigint NOT NULL,
748     typeofaccess integer,
749     resource_id bigint
750 );
751
752
753 ALTER TABLE public.permission OWNER TO postgres;
754
755 —
756 — Name: person; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
757 —
758
759 CREATE TABLE person (
760     id bigint NOT NULL,
761     birthday timestamp without time zone,
762     firstname character varying(255),
763     height integer,
764     lastname character varying(255),
765     weight integer
766 );
767
768
769 ALTER TABLE public.person OWNER TO postgres;
770
771 —
772 — Name: person_team; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
773 —
774
775 CREATE TABLE person_team (
776     person_id bigint NOT NULL,
777     teams_id bigint NOT NULL
778 );
779
780
781 ALTER TABLE public.person_team OWNER TO postgres;
782
783 —
784 — Name: resource; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
785 —
786
787 CREATE TABLE resource (
788     id bigint NOT NULL,
789     key bytea,
790     name character varying(255)
791 );
792
793
794 ALTER TABLE public.resource OWNER TO postgres;
795
796 —
797 — Name: role; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
798 —
799
800 CREATE TABLE role (
801     name character varying(255) NOT NULL,

```

```

802     inheritedrole_name character varying(255),
803     tournament_year integer
804 );
805
806
807 ALTER TABLE public.role OWNER TO postgres;
808
809 —
810 — Name: role_permission; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
811 —
812
813 CREATE TABLE role_permission (
814     role_name character varying(255) NOT NULL,
815     permissions_id bigint NOT NULL
816 );
817
818
819 ALTER TABLE public.role_permission OWNER TO postgres;
820
821 —
822 — Name: team_advisor; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
823 —
824
825 CREATE TABLE team_advisor (
826     team_id bigint NOT NULL,
827     advisors_id bigint NOT NULL
828 );
829
830
831 ALTER TABLE public.team_advisor OWNER TO postgres;
832
833 —
834 — Name: team_player; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
835 —
836
837 CREATE TABLE team_player (
838     team_id bigint NOT NULL,
839     players_id bigint NOT NULL
840 );
841
842
843 ALTER TABLE public.team_player OWNER TO postgres;
844
845 —
846 — Name: tournament; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
847 —
848
849 CREATE TABLE tournament (
850     year integer NOT NULL,
851     name character varying(255),
852     finalmatch_id bigint,
853     groupstage_id bigint,
854     matchforthirdplace_id bigint
855 );
856
857
858 ALTER TABLE public.tournament OWNER TO postgres;
859
860 —
861 — Name: tournament_country; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
862 —
863
864 CREATE TABLE tournament_country (
865     tournament_year integer NOT NULL,
866     hostcountries_id bigint NOT NULL
867 );
868
869

```

```

870 ALTER TABLE public.tournament_country OWNER TO postgres;
871
872
873 -- Name: tournament_stadium; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
874 --
875
876 CREATE TABLE tournament_stadium (
877     tournament_year integer NOT NULL,
878     stadiums_stadiumid bigint NOT NULL
879 );
880
881
882 ALTER TABLE public.tournament_stadium OWNER TO postgres;
883
884
885 -- Name: tournamentgroup; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
886 --
887
888 CREATE TABLE tournamentgroup (
889     groupid bigint NOT NULL,
890     name character varying(255),
891     tournament_year integer
892 );
893
894
895 ALTER TABLE public.tournamentgroup OWNER TO postgres;
896
897
898 -- Name: tournamentgroup_match; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
899 --
900
901 CREATE TABLE tournamentgroup_match (
902     tournamentgroup_groupid bigint NOT NULL,
903     matches_id bigint NOT NULL
904 );
905
906
907 ALTER TABLE public.tournamentgroup_match OWNER TO postgres;
908
909
910 -- Name: tournamentgroup_team; Type: TABLE; Schema: public; Owner: postgres; Tablespace:
911 --
912
913 CREATE TABLE tournamentgroup_team (
914     tournamentgroup_groupid bigint NOT NULL,
915     teams_id bigint NOT NULL
916 );
917
918
919 ALTER TABLE public.tournamentgroup_team OWNER TO postgres;
920
921
922 -- Name: actor_permission_permissions_id_key; Type: CONSTRAINT; Schema: public; Owner:
923 -- postgres; Tablespace:
924 --
925 ALTER TABLE ONLY actor_permission
926     ADD CONSTRAINT actor_permission_permissions_id_key UNIQUE (permissions_id);
927
928
929 -- Name: actor_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
930 --
931
932
933 ALTER TABLE ONLY actor
934     ADD CONSTRAINT actor_pkey PRIMARY KEY (email);
935

```



```

936
937 ---
938 --- Name: actor_role_roles_name_key; Type: CONSTRAINT; Schema: public; Owner: postgres;
    Tablespace:
939 ---
940
941 ALTER TABLE ONLY actor_role
942     ADD CONSTRAINT actor_role_roles_name_key UNIQUE (roles_name);
943
944
945 ---
946 --- Name: advisor_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
947 ---
948
949 ALTER TABLE ONLY advisor
950     ADD CONSTRAINT advisor_pkey PRIMARY KEY (id);
951
952
953 ---
954 --- Name: country_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
955 ---
956
957 ALTER TABLE ONLY country
958     ADD CONSTRAINT country_pkey PRIMARY KEY (id);
959
960
961 ---
962 --- Name: groupstage_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
963 ---
964
965 ALTER TABLE ONLY groupstage
966     ADD CONSTRAINT groupstage_pkey PRIMARY KEY (id);
967
968
969 ---
970 --- Name: groupstage_tournamentgroup_groups_groupid_key; Type: CONSTRAINT; Schema: public
    ; Owner: postgres; Tablespace:
971 ---
972
973 ALTER TABLE ONLY groupstage_tournamentgroup
974     ADD CONSTRAINT groupstage_tournamentgroup_groups_groupid_key UNIQUE (groups_groupid)
    ;
975
976
977 ---
978 --- Name: match_matchevent_events_id_key; Type: CONSTRAINT; Schema: public; Owner:
    postgres; Tablespace:
979 ---
980
981 ALTER TABLE ONLY match_matchevent
982     ADD CONSTRAINT match_matchevent_events_id_key UNIQUE (events_id);
983
984
985 ---
986 --- Name: match_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
987 ---
988
989 ALTER TABLE ONLY match
990     ADD CONSTRAINT match_pkey PRIMARY KEY (id);
991
992
993 ---
994 --- Name: matchevent_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
995 ---
996
997 ALTER TABLE ONLY matchevent
998     ADD CONSTRAINT matchevent_pkey PRIMARY KEY (id);
999

```

```

1000 —
1001 —
1002 — Name: permission_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
1003 —
1004
1005 ALTER TABLE ONLY permission
1006     ADD CONSTRAINT permission_pkey PRIMARY KEY (id);
1007
1008 —
1009 —
1010 — Name: person_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
1011 —
1012
1013 ALTER TABLE ONLY person
1014     ADD CONSTRAINT person_pkey PRIMARY KEY (id);
1015
1016 —
1017 —
1018 — Name: player_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
1019 —
1020
1021 ALTER TABLE ONLY player
1022     ADD CONSTRAINT player_pkey PRIMARY KEY (id);
1023
1024 —
1025 —
1026 — Name: resource_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
1027 —
1028
1029 ALTER TABLE ONLY resource
1030     ADD CONSTRAINT resource_pkey PRIMARY KEY (id);
1031
1032 —
1033 —
1034 — Name: role_permission_permissions_id_key; Type: CONSTRAINT; Schema: public; Owner:
    postgres; Tablespace:
1035 —
1036
1037 ALTER TABLE ONLY role_permission
1038     ADD CONSTRAINT role_permission_permissions_id_key UNIQUE (permissions_id);
1039
1040 —
1041 —
1042 — Name: role_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
1043 —
1044
1045 ALTER TABLE ONLY role
1046     ADD CONSTRAINT role_pkey PRIMARY KEY (name);
1047
1048 —
1049 —
1050 — Name: stadium_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
1051 —
1052
1053 ALTER TABLE ONLY stadium
1054     ADD CONSTRAINT stadium_pkey PRIMARY KEY (stadiumid);
1055
1056 —
1057 —
1058 — Name: team_advisor_advisors_id_key; Type: CONSTRAINT; Schema: public; Owner: postgres
    ; Tablespace:
1059 —
1060
1061 ALTER TABLE ONLY team_advisor
1062     ADD CONSTRAINT team_advisor_advisors_id_key UNIQUE (advisors_id);
1063
1064 —
1065 —

```

```

1066  — Name: team_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
1067  —
1068
1069  ALTER TABLE ONLY team
1070      ADD CONSTRAINT team_pkey PRIMARY KEY (id);
1071
1072
1073  —
1074  — Name: tournament_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres; Tablespace:
1075  —
1076
1077  ALTER TABLE ONLY tournament
1078      ADD CONSTRAINT tournament_pkey PRIMARY KEY (year);
1079
1080
1081  —
1082  — Name: tournamentgroup_match_matches_id_key; Type: CONSTRAINT; Schema: public; Owner:
1083  —   postgres; Tablespace:
1084
1085  ALTER TABLE ONLY tournamentgroup_match
1086      ADD CONSTRAINT tournamentgroup_match_matches_id_key UNIQUE (matches_id);
1087
1088
1089  —
1090  — Name: tournamentgroup_pkey; Type: CONSTRAINT; Schema: public; Owner: postgres;
1091  —   Tablespace:
1092
1093  ALTER TABLE ONLY tournamentgroup
1094      ADD CONSTRAINT tournamentgroup_pkey PRIMARY KEY (groupid);
1095
1096
1097  —
1098  — Name: tournamentgroup_team_teams_id_key; Type: CONSTRAINT; Schema: public; Owner:
1099  —   postgres; Tablespace:
1100
1101  ALTER TABLE ONLY tournamentgroup_team
1102      ADD CONSTRAINT tournamentgroup_team_teams_id_key UNIQUE (teams_id);
1103
1104
1105  —
1106  — Name: fk1fc9f7a09b9d8d6d; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1107  —
1108
1109  ALTER TABLE ONLY advisor
1110      ADD CONSTRAINT fk1fc9f7a09b9d8d6d FOREIGN KEY (id) REFERENCES person(id);
1111
1112
1113  —
1114  — Name: fk26e2d0c0d36f2a65; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1115  —
1116
1117  ALTER TABLE ONLY actor_role
1118      ADD CONSTRAINT fk26e2d0c0d36f2a65 FOREIGN KEY (actor_email) REFERENCES actor(email);
1119
1120
1121  —
1122  — Name: fk26e2d0c0e4a0b3e5; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1123  —
1124
1125  ALTER TABLE ONLY actor_role
1126      ADD CONSTRAINT fk26e2d0c0e4a0b3e5 FOREIGN KEY (roles_name) REFERENCES role(name);
1127
1128
1129  —
1130  — Name: fk26f49674b12939; Type: FK CONSTRAINT; Schema: public; Owner: postgres

```

```

1131 ---
1132
1133 ALTER TABLE ONLY role
1134     ADD CONSTRAINT fk26f49674b12939 FOREIGN KEY (tournament_year) REFERENCES tournament(
1135         year);
1136
1137 ---
1138 --- Name: fk26f496da563832; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1139 ---
1140
1141 ALTER TABLE ONLY role
1142     ADD CONSTRAINT fk26f496da563832 FOREIGN KEY (inheritedrole_name) REFERENCES role(
1143         name);
1144
1145 ---
1146 --- Name: fk27b67dfcf4fc9d; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1147 ---
1148
1149 ALTER TABLE ONLY team
1150     ADD CONSTRAINT fk27b67dfcf4fc9d FOREIGN KEY (country_id) REFERENCES country(id);
1151
1152 ---
1153 --- Name: fk3525aa1c2801c0aa; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1154 ---
1155
1156 ALTER TABLE ONLY tournamentgroup_match
1157     ADD CONSTRAINT fk3525aa1c2801c0aa FOREIGN KEY (matches_id) REFERENCES match(id);
1158
1159 ---
1160 --- Name: fk3525aa1cd57db48a; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1161 ---
1162
1163 ALTER TABLE ONLY tournamentgroup_match
1164     ADD CONSTRAINT fk3525aa1cd57db48a FOREIGN KEY (tournamentgroup_groupid) REFERENCES
1165         tournamentgroup(groupid);
1166
1167 ---
1168 --- Name: fk3b74360966de6d99; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1169 ---
1170
1171 ALTER TABLE ONLY tournament
1172     ADD CONSTRAINT fk3b74360966de6d99 FOREIGN KEY (finalmatch_id) REFERENCES match(id);
1173
1174 ---
1175 --- Name: fk3b7436097d361fb7; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1176 ---
1177
1178 ALTER TABLE ONLY tournament
1179     ADD CONSTRAINT fk3b7436097d361fb7 FOREIGN KEY (groupstage_id) REFERENCES groupstage(
1180         id);
1181
1182 ---
1183 --- Name: fk3b743609fcd043a4; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1184 ---
1185
1186 ALTER TABLE ONLY tournament
1187     ADD CONSTRAINT fk3b743609fcd043a4 FOREIGN KEY (matchforthirdplace_id) REFERENCES
1188         match(id);
1189
1190 ---
1191
1192
1193

```

```

1194 --- Name: fk46ae9a515c9d2b6; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1195 ---
1196
1197 ALTER TABLE ONLY match
1198     ADD CONSTRAINT fk46ae9a515c9d2b6 FOREIGN KEY (stadium_stadiumid) REFERENCES stadium(
1199         stadiumid);
1200
1201 ---
1202 --- Name: fk46ae9a574b12939; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1203 ---
1204
1205 ALTER TABLE ONLY match
1206     ADD CONSTRAINT fk46ae9a574b12939 FOREIGN KEY (tournament_year) REFERENCES tournament
1207         (year);
1208
1209 ---
1210 --- Name: fk46ae9a5d4eae9bd3; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1211 ---
1212
1213 ALTER TABLE ONLY match
1214     ADD CONSTRAINT fk46ae9a5d4eae9bd3 FOREIGN KEY (group_groupid) REFERENCES
1215         tournamentgroup(groupid);
1216
1217 ---
1218 --- Name: fk46ae9a5e2487ff; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1219 ---
1220
1221 ALTER TABLE ONLY match
1222     ADD CONSTRAINT fk46ae9a5e2487ff FOREIGN KEY (guestteam_id) REFERENCES team(id);
1223
1224
1225 ---
1226 --- Name: fk46ae9a5f0ec562f; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1227 ---
1228
1229 ALTER TABLE ONLY match
1230     ADD CONSTRAINT fk46ae9a5f0ec562f FOREIGN KEY (hostteam_id) REFERENCES team(id);
1231
1232
1233 ---
1234 --- Name: fk49fd4907cdc8c6de; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1235 ---
1236
1237 ALTER TABLE ONLY person_team
1238     ADD CONSTRAINT fk49fd4907cdc8c6de FOREIGN KEY (teams_id) REFERENCES team(id);
1239
1240
1241 ---
1242 --- Name: fk49fd4907ce781a97; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1243 ---
1244
1245 ALTER TABLE ONLY person_team
1246     ADD CONSTRAINT fk49fd4907ce781a97 FOREIGN KEY (person_id) REFERENCES person(id);
1247
1248
1249 ---
1250 --- Name: fk5625b34074b12939; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1251 ---
1252
1253 ALTER TABLE ONLY tournament_country
1254     ADD CONSTRAINT fk5625b34074b12939 FOREIGN KEY (tournament_year) REFERENCES
1255         tournament(year);
1256
1257 ---

```

```

1258 — Name: fk5625b3409a553667; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1259 —
1260
1261 ALTER TABLE ONLY tournament_country
1262     ADD CONSTRAINT fk5625b3409a553667 FOREIGN KEY (hostcountries_id) REFERENCES country(
1263         id);
1264
1265 —
1266 — Name: fk57f7a1ef94470e9c; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1267 —
1268
1269 ALTER TABLE ONLY permission
1270     ADD CONSTRAINT fk57f7a1ef94470e9c FOREIGN KEY (resource_id) REFERENCES resource(id);
1271
1272
1273 —
1274 — Name: fk62cd596526daa28; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1275 —
1276
1277 ALTER TABLE ONLY groupstage_tournamentgroup
1278     ADD CONSTRAINT fk62cd596526daa28 FOREIGN KEY (groups_groupid) REFERENCES
1279         tournamentgroup(groupid);
1280
1281 —
1282 — Name: fk62cd5967d361fb7; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1283 —
1284
1285 ALTER TABLE ONLY groupstage_tournamentgroup
1286     ADD CONSTRAINT fk62cd5967d361fb7 FOREIGN KEY (groupstage_id) REFERENCES groupstage(
1287         id);
1288
1289 —
1290 — Name: fk6372df674b12939; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1291 —
1292
1293 ALTER TABLE ONLY tournamentgroup
1294     ADD CONSTRAINT fk6372df674b12939 FOREIGN KEY (tournament_year) REFERENCES tournament
1295         (year);
1296
1297 —
1298 — Name: fk8ea387019b9d8d6d; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1299 —
1300
1301 ALTER TABLE ONLY player
1302     ADD CONSTRAINT fk8ea387019b9d8d6d FOREIGN KEY (id) REFERENCES person(id);
1303
1304
1305 —
1306 — Name: fka1d587dedb6578d7; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1307 —
1308
1309 ALTER TABLE ONLY team_advisor
1310     ADD CONSTRAINT fka1d587dedb6578d7 FOREIGN KEY (team_id) REFERENCES team(id);
1311
1312
1313 —
1314 — Name: fka1d587deea5528a; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1315 —
1316
1317 ALTER TABLE ONLY team_advisor
1318     ADD CONSTRAINT fka1d587deea5528a FOREIGN KEY (advisors_id) REFERENCES advisor(id);
1319
1320
1321 —

```

```

1322 — Name: fkabf317a774b12939; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1323 —
1324
1325 ALTER TABLE ONLY tournament_stadium
1326 ADD CONSTRAINT fkabf317a774b12939 FOREIGN KEY (tournament_year) REFERENCES
1327 tournament(year);
1328
1329 —
1330 — Name: fkabf317a7db034f8f; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1331 —
1332
1333 ALTER TABLE ONLY tournament_stadium
1334 ADD CONSTRAINT fkabf317a7db034f8f FOREIGN KEY (stadiums_stadiumid) REFERENCES
1335 stadium(stadiumid);
1336
1337 —
1338 — Name: fkb7678b26cdc8c6de; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1339 —
1340
1341 ALTER TABLE ONLY tournamentgroup_team
1342 ADD CONSTRAINT fkb7678b26cdc8c6de FOREIGN KEY (teams_id) REFERENCES team(id);
1343
1344 —
1345 — Name: fkb7678b26d57db48a; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1346 —
1347 —
1348
1349 ALTER TABLE ONLY tournamentgroup_team
1350 ADD CONSTRAINT fkb7678b26d57db48a FOREIGN KEY (tournamentgroup_groupid) REFERENCES
1351 tournamentgroup(groupid);
1352
1353 —
1354 — Name: fkbfc93acf60766fd; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1355 —
1356
1357 ALTER TABLE ONLY match_matchevent
1358 ADD CONSTRAINT fkbfc93acf60766fd FOREIGN KEY (match_id) REFERENCES match(id);
1359
1360 —
1361 — Name: fkbfc93acfdcc26853; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1362 —
1363 —
1364
1365 ALTER TABLE ONLY match_matchevent
1366 ADD CONSTRAINT fkbfc93acfdcc26853 FOREIGN KEY (events_id) REFERENCES matchevent(id);
1367
1368 —
1369 — Name: fkc243699401023a7; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1370 —
1371 —
1372
1373 ALTER TABLE ONLY actor_permission
1374 ADD CONSTRAINT fkc243699401023a7 FOREIGN KEY (permissions_id) REFERENCES permission
1375 (id);
1376
1377 —
1378 — Name: fkc243699d36f2a65; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1379 —
1380
1381 ALTER TABLE ONLY actor_permission
1382 ADD CONSTRAINT fkc243699d36f2a65 FOREIGN KEY (actor_email) REFERENCES actor(email);
1383
1384 —
1385

```

```

1386  — Name: fkd4e5f70318f27aa6; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1387  —
1388
1389  ALTER TABLE ONLY team_player
1390      ADD CONSTRAINT fkd4e5f70318f27aa6 FOREIGN KEY (players_id) REFERENCES player(id);
1391
1392
1393  —
1394  — Name: fkd4e5f703db6578d7; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1395  —
1396
1397  ALTER TABLE ONLY team_player
1398      ADD CONSTRAINT fkd4e5f703db6578d7 FOREIGN KEY (team_id) REFERENCES team(id);
1399
1400
1401  —
1402  — Name: fkd7c3a68b1fd58223; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1403  —
1404
1405  ALTER TABLE ONLY match_match
1406      ADD CONSTRAINT fkd7c3a68b1fd58223 FOREIGN KEY (match_id) REFERENCES match(id);
1407
1408
1409  —
1410  — Name: fkd7c3a68b884bbd1; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1411  —
1412
1413  ALTER TABLE ONLY match_match
1414      ADD CONSTRAINT fkd7c3a68b884bbd1 FOREIGN KEY (childs_id) REFERENCES match(id);
1415
1416
1417  —
1418  — Name: fke491d7f560766fd; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1419  —
1420
1421  ALTER TABLE ONLY matchevent
1422      ADD CONSTRAINT fke491d7f560766fd FOREIGN KEY (match_id) REFERENCES match(id);
1423
1424
1425  —
1426  — Name: fke491d7f56a9e6294; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1427  —
1428
1429  ALTER TABLE ONLY matchevent
1430      ADD CONSTRAINT fke491d7f56a9e6294 FOREIGN KEY (scoringteam_id) REFERENCES team(id);
1431
1432
1433  —
1434  — Name: fke491d7f5c7168977; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1435  —
1436
1437  ALTER TABLE ONLY matchevent
1438      ADD CONSTRAINT fke491d7f5c7168977 FOREIGN KEY (newplayer_id) REFERENCES player(id);
1439
1440
1441  —
1442  — Name: fke491d7f5db6578d7; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1443  —
1444
1445  ALTER TABLE ONLY matchevent
1446      ADD CONSTRAINT fke491d7f5db6578d7 FOREIGN KEY (team_id) REFERENCES team(id);
1447
1448
1449  —
1450  — Name: fke491d7f5df1dd7b0; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1451  —
1452
1453  ALTER TABLE ONLY matchevent

```



```

1454      ADD CONSTRAINT fke491d7f5df1dd7b0 FOREIGN KEY (involvedplayer_id) REFERENCES player(
1455          id);
1456
1457  ---
1458  --- Name: fkf21d53ddfcf4fc9d; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1459  ---
1460
1461  ALTER TABLE ONLY stadium
1462      ADD CONSTRAINT fkf21d53ddfcf4fc9d FOREIGN KEY (country_id) REFERENCES country(id);
1463
1464  ---
1465  ---
1466  --- Name: fkf8a56938401023a7; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1467  ---
1468
1469  ALTER TABLE ONLY role_permission
1470      ADD CONSTRAINT fkf8a56938401023a7 FOREIGN KEY (permissions_id) REFERENCES permission
1471          (id);
1472
1473  ---
1474  --- Name: fkf8a569386ac4edcc; Type: FK CONSTRAINT; Schema: public; Owner: postgres
1475  ---
1476
1477  ALTER TABLE ONLY role_permission
1478      ADD CONSTRAINT fkf8a569386ac4edcc FOREIGN KEY (role_name) REFERENCES role(name);
1479
1480
1481  ---
1482  --- PostgreSQL database dump complete
1483  ---

```