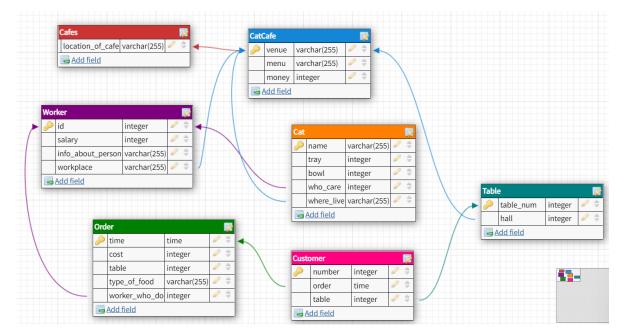
Create Database



```
CREATE TABLE "public.CatCafe" (
    "venue" VARCHAR(55) NOT NULL,
    "workplace" VARCHAR(55) NOT NULL,
    "tables" integer(55) NOT NULL,
    "menu" VARCHAR(55) NOT NULL,
    "workers" integer(55) NOT NULL,
    "money" integer(55) NOT NULL,
    "cats" VARCHAR(55) NOT NULL,
    "customers" VARCHAR(55) NOT NULL,
    CONSTRAINT "CatCafe_pk" PRIMARY KEY ("venue")
) WITH (
  OIDS=FALSE
);
CREATE TABLE "public.Worker" (
    "id" serial(1) NOT NULL,
    "salary" integer(1) NOT NULL,
    "info_about_person" VARCHAR(55) NOT NULL,
    "workplace" VARCHAR(5) NOT NULL,
    "orders" DATETIME(55) NOT NULL,
    "care_about(cat)" VARCHAR(55) NOT NULL,
    CONSTRAINT "Worker_pk" PRIMARY KEY ("id")
) WITH (
  OIDS=FALSE
);
CREATE TABLE "public.Customer" (
    "number" serial(1) NOT NULL,
    "order" serial(1) NOT NULL,
    "play_with(cat)" serial(55) NOT NULL,
    "table" serial(1) NOT NULL,
    CONSTRAINT "Customer_pk" PRIMARY KEY ("number")
) WITH (
  OIDS=FALSE
);
CREATE TABLE "public.Cat" (
    "name" serial(1) NOT NULL,
    "tray" serial(1) NOT NULL,
    "bowl" serial(1) NOT NULL,
    "who_care(worker)" serial(55) NOT NULL,
    CONSTRAINT "Cat_pk" PRIMARY KEY ("name")
) WITH (
  OIDS=FALSE
);
CREATE TABLE "public.Order" (
    "time" DATETIME(1) NOT NULL,
    "cost" integer(1) NOT NULL,
    "table" integer(1) NOT NULL,
    "type_of_food" VARCHAR(55) NOT NULL,
    CONSTRAINT "Order_pk" PRIMARY KEY ("time")
```

```
) WITH (
  OIDS=FALSE
);
CREATE TABLE "public.Table" (
    "table_num" serial(1) NOT NULL,
    "free" integer (55) NOT NULL,
    "occupation" integer(55) NOT NULL,
    CONSTRAINT "Table pk" PRIMARY KEY ("table num")
) WITH (
  OIDS=FALSE
);
CREATE TABLE "public.Cafes" (
    "location of cafe" integer(55) NOT NULL
) WITH (
  OIDS=FALSE
);
ALTER TABLE "CatCafe" ADD CONSTRAINT "CatCafe_fk0" FOREIGN KEY ("venue")
REFERENCES "Cafes"("location_of_cafe");
ALTER TABLE "CatCafe" ADD CONSTRAINT "CatCafe fk1" FOREIGN KEY ("customers")
REFERENCES "Customer"("number");
ALTER TABLE "Worker" ADD CONSTRAINT "Worker fk0" FOREIGN KEY ("id")
REFERENCES "CatCafe"("workers");
ALTER TABLE "Worker" ADD CONSTRAINT "Worker_fk1" FOREIGN KEY ("salary")
REFERENCES "CatCafe"("money");
ALTER TABLE "Worker" ADD CONSTRAINT "Worker_fk2" FOREIGN KEY ("workplace")
REFERENCES "CatCafe"("workplace");
ALTER TABLE "Worker" ADD CONSTRAINT "Worker_fk3" FOREIGN KEY ("orders")
REFERENCES "Order"("time");
ALTER TABLE "Worker" ADD CONSTRAINT "Worker_fk4" FOREIGN KEY
("care_about(cat)") REFERENCES "Cat"("name");
ALTER TABLE "Customer" ADD CONSTRAINT "Customer_fk0" FOREIGN KEY ("order")
REFERENCES "Order"("time");
ALTER TABLE "Customer" ADD CONSTRAINT "Customer fk1" FOREIGN KEY
("play_with(cat)") REFERENCES "Cat"("name");
ALTER TABLE "Customer" ADD CONSTRAINT "Customer_fk2" FOREIGN KEY ("table")
REFERENCES "Table"("table num");
ALTER TABLE "Cat" ADD CONSTRAINT "Cat_fk0" FOREIGN KEY ("name") REFERENCES
"CatCafe"("cats");
ALTER TABLE "Cat" ADD CONSTRAINT "Cat_fk1" FOREIGN KEY ("who_care(worker)")
REFERENCES "Worker"("id");
ALTER TABLE "Order" ADD CONSTRAINT "Order_fk0" FOREIGN KEY ("cost")
REFERENCES "CatCafe"("money");
ALTER TABLE "Order" ADD CONSTRAINT "Order_fk1" FOREIGN KEY ("table")
REFERENCES "CatCafe"("tables");
ALTER TABLE "Order" ADD CONSTRAINT "Order fk2" FOREIGN KEY ("type of food")
REFERENCES "CatCafe"("menu");
```

ALTER TABLE "Table" ADD CONSTRAINT REFERENCES "CatCafe"("tables");	"Table_fk0"	FOREIGN KEY	("table_num")

vnější spojení tabulek

What order who processed

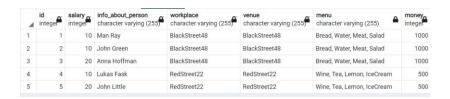
SELECT * FROM "Order" LEFT OUTER JOIN "Worker" On ("Order".worker_who_do = "Worker".id);

4	time time without time zone	cost intege	table intege	type_of_food character varying (255)	worker_who_do_ integer	id intege	salary integel	info_about_person character varying (255)	workplace character varying (255)
1	12:30:00	1	1	Salad	1	1	10	Man Ray	BlackStreet48
2	20:30:00	2	2	Tea, Ice Cream	1	1	10	Man Ray	BlackStreet48
3	15:15:00	2	3	Meat, Bread	1	1	10	Man Ray	BlackStreet48
4	16:20:00	3	4	Wine, Bread	2	2	10	John Green	BlackStreet48
5	15:22:00	1	3	Ice cream	2	2	10	John Green	BlackStreet48

vnitřní spojení tabulek

Who works in what cafe

 $\textbf{SELECT} \; \star \; \textbf{FROM} \; \text{"Worker"} \; \textbf{INNER JOIN} \; \text{"CatCafe"} \; \textbf{On} \; (\text{"Worker".workplace} \; = \text{"CatCafe".venue} \;)$



podmínku na data

What order was placed after 3 p.m.

SELECT * FROM "Order" WHERE (time > '15:00:00') ORDER BY TIME;



• agregaci a podmínku na hodnotu agregační funkce

SELECT worker_who_do, count(*) as table FROM "Order" GROUP BY worker_who_do ORDER BY worker_who_do;

Which employee serves how many tables

4	worker_who_do.integer	table bigint
1	1	3
2	2	2

• řazení a stránkování

```
SELECT * FROM "Worker" WHERE (salary > 10) ORDER BY salary;
```

Looking for all employees whose salary is more than 10

4	id [PK] integer	salary integer	info_about_person character varying (255)	workplace character varying (255)
1	3	20	Anna Hoffman	BlackStreet48
2	5	20	John Little	RedStreet22
3	6	30	Bill Klin	RedStreet22

Only 10 clients are displayed

SELECT * FROM "Customer" LIMIT 10;

4	number integer	order time without time zone	table intege
1	1	20:00:25.479619	10
2	1	20:05:32.521731	2
3	0	20:09:55.416434	1
4	0	20:03:57.504921	10
5	0	20:09:18.10318	10
6	0	20:00:46.809742	10
7	1	20:06:10.798841	4
8	0	20:06:48.108158	3
9	1	20:09:54.028425	7
10	1	20:07:38.831878	8

4	number integer	1	order time without time zone	table integer	<u></u>	
1		1	20:00:25.479619		10	
2		1	20:05:32.521731		2	
3		0	20:09:55.416434		1	
4		0	20:03:57.504921		10	
5		0	20:09:18.10318		10	
6		0	20:00:46.809742		10	
7		1	20:06:10.798841		4	
8		0	20:06:48.108158		3	
9		1	20:09:54.028425		7	
10		1	20:07:38.831878		8	
11		1	20:04:10.656924		10	
12		1	20:04:34.460388		10	
13		0	20:07:02.581287		7	
14		1	20:09:44.967042		6	
15		1	20:00:43.792741		10	
16		1	20:01:01.375028		5	
17		0	20:04:14.74258		7	
18		0	20:00:25.639847		10	