ADMS2000 Aviation Accident Database Management System
'multiple response' data

When one or more responses is possible and allowable for a field during the data entry process into ADMS2000, the database system accomodates any number of responses or allows none to be selected. This is accomplished through normalization using additional tables referred to as 'detail' tables The naming convention is **dt_xxxx**. The 3 detail tables in ADMS2000 are 1) **dt_events** 2) **dt_aircraft** 3) **dt_flight_crew.**

There are a total of 20 multiple response **fields** in the database.

SQL Server TableName	SQL Server ColumnName	Data Type	Data Length	S1032 field name	S1032 Description
dt_aircraft	acft_awy_cert	char	4	C44	AIRWORTHINESS
dt_aircraft	aircar_cert	char	4	C80	AIR_CARRIER_CERTIF
dt_aircraft	airspc_type	char	4	C160	AIRSPACE_FIX
dt_aircraft	instm_appr	char	4	C31	INSTRUM_APPR_FIX
dt_aircraft	landing_gear	char	4	C46	LAND_GEAR_FIX
dt_aircraft	landing_surf	char	4	C36	RUNWAY_SURFACE_FIX
dt_aircraft	load_desc	char	4	C170	LOAD_DESCRIPTION_FIX
dt_aircraft	rwy_cond	char	4	C37	RUNWAY_STATUS_FIX
dt_aircraft	type_clear	char	4	C159	TYP_CLEARANCE
dt_aircraft	vfr_appr	char	4	C30	VFR_APPR_ LAND_FIX
dt_events	prop_dmg	char	4	C921K	PROPTY_DAMAGE_PR_FIX
dt_events	vis_restrct	char	4	C197	VIS_RESTRICT_FIX
dt_events	wx_brief	char	4	C181	BRIEFING_METHOD
dt_events	wx_brief_src	char	4	C180	WEATH_BRIEF_SRC
dt_events	wx_cond	char	4	C198	TYP_PRECIP_FIX
dt_flight_crew	crew_cert_code	char	4	C97	PILOT_CERTIFS
dt_flight_crew	crew_rat_airpln	char	4	C98	AIRPLANE_RATINGS
dt_flight_crew	crew_rat_instruct	char	4	C101	INSTRUCT_RATING
dt_flight_crew	crew_rat_instrum	char	4	C100	INSTRUM_RATING
dt_flight_crew	crew_rat_roto	char	4	C99	ROTORCFT_RATINGS

The choices and translations can be found in **ct_iaids.**

In addition, the tables and report below are located in the downloadable mdb's located on the NTSB FTP site, AVDATA.

      Tables: MultipleResponse   (the 20 multiple response fields)
                MultipleResponses (the valid responses for each of the 20 fields)
      Report: rMultipleResponse (A report displaying all 20 fields and their corresponding valid responses)

'Runway condition' (rwy_cond) can have multiple responses associated with this attribute. As seen below, this is a complete list of the valid choices for this particular attribute. Assume that the investigator selects DRY, ROUGH and VEGETATION.

ct_name	code_iaids	meaning	seq	ntsb_type	ntsb_code	
ct_rwy_cond	**DRY**	**Dry**	1	N	01	
ct_rwy_cond	HOLE	Holes	16	N	16	
ct_rwy_cond	ICEC	Ice Covered	3	N	03	
ct_rwy_cond	RBDP	Rubber Deposits	12	N	12	
ct_rwy_cond	**ROUG**	**Rough**	14	N	14	
ct_rwy_cond	SLUH	Slush covered	15	N	15	
ct_rwy_cond	SNCM	Snow--compacted	7	N	07	
ct_rwy_cond	SNCR	Snow-crusted	6	N	06	
ct_rwy_cond	SNDR	Snow--dry	4	N	04	
ct_rwy_cond	SNWT	Snow--wet	5	N	05	
ct_rwy_cond	SOFT	Soft	13	N	13	
ct_rwy_cond	UNK	Unknown	0	N	00	
ct_rwy_cond	**VEGE**	**Vegetation**	8	N	08	
ct_rwy_cond	WACH	Water--choppy	10	N	10	
ct_rwy_cond	WACM	Water--calm	9	N	09	
ct_rwy_cond	WAGL	Water--glassy	11	N	11	
ct_rwy_cond	WET	Wet	2	N	02	

In this case, the dt_aircraft table will contain the 3 records below, where the 'code' field values are DRY, ROUG and VEGE

```
ev_id            aircraft_key   col_name    code       lchg_date    lchg_userid
20001207X03347    1             rwy_cond    DRY        12/12/2001    dbo
20001207X03347    1             rwy_cond    ROUG       12/12/2001    dbo
20001207X03347    1             rwy_cond    VEGE       12/12/2001    dbo
```

Searching across accident records for instances of any specific response becomes a simple task.

ex: quickly searching for accidents that involved snow would be constructed as follows:
    Select * from dt_aircraft where col_name = "rwy_cond" and code like "SN*"